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\* \* \* \* \* \* \* \* \* \* Welcome to STN International \* \* \* \* \* \* \* \* \*

NEWS 1 Web Page for STN Seminar Schedule - N. America  
NEWS 2 MAR 15 WPIIDS/WPIX enhanced with new FRAGHITSTR display format  
NEWS 3 MAR 16 CASREACT coverage extended  
NEWS 4 MAR 20 MARPAT now updated daily  
NEWS 5 MAR 22 LWPII reloaded  
NEWS 6 MAR 30 RDISCLOSURE reloaded with enhancements  
NEWS 7 APR 02 JICST-EPLUS removed from database clusters and STN  
NEWS 8 APR 30 GENBANK reloaded and enhanced with Genome Project ID field  
NEWS 9 APR 30 CHEMCATS enhanced with 1.2 million new records  
NEWS 10 APR 30 CA/CAplus enhanced with 1870-1889 U.S. patent records  
NEWS 11 APR 30 INPADOC replaced by INPADOCDB on STN  
NEWS 12 MAY 01 New CAS web site launched  
NEWS 13 MAY 08 CA/CAplus Indian patent publication number format defined  
NEWS 14 MAY 14 RDISCLOSURE on STN Easy enhanced with new search and display fields  
NEWS 15 MAY 21 BIOSIS reloaded and enhanced with archival data  
NEWS 16 MAY 21 TOXCENTER enhanced with BIOSIS reload  
NEWS 17 MAY 21 CA/CAplus enhanced with additional kind codes for German patents  
NEWS 18 MAY 22 CA/CAplus enhanced with IPC reclassification in Japanese patents  
NEWS 19 JUN 27 CA/CAplus enhanced with pre-1967 CAS Registry Numbers  
NEWS 20 JUN 29 STN Viewer now available  
NEWS 21 JUN 29 STN Express, Version 8.2, now available  
NEWS 22 JUL 02 LEMBASE coverage updated  
NEWS 23 JUL 02 LMEDLINE coverage updated  
NEWS 24 JUL 02 SCISEARCH enhanced with complete author names  
NEWS 25 JUL 02 CHEMCATS accession numbers revised  
NEWS 26 JUL 02 CA/CAplus enhanced with utility model patents from China  
NEWS 27 JUL 16 CAplus enhanced with French and German abstracts  
NEWS 28 JUL 18 CA/CAplus patent coverage enhanced  
NEWS 29 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification

NEWS EXPRESS 29 JUNE 2007: CURRENT WINDOWS VERSION IS V8.2,  
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

NEWS HOURS STN Operating Hours Plus Help Desk Availability  
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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 17:03:50 ON 27 JUL 2007

=> file registry  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
0.21	0.21

FILE 'REGISTRY' ENTERED AT 17:04:05 ON 27 JUL 2007  
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STRUCTURE FILE UPDATES: 26 JUL 2007 HIGHEST RN 943513-14-2  
DICTIONARY FILE UPDATES: 26 JUL 2007 HIGHEST RN 943513-14-2

New CAS Information Use Policies, enter HELP USAGETERMS for details.

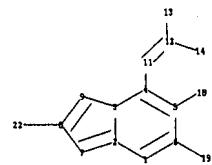
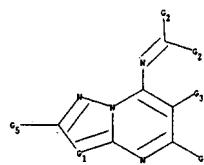
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when  
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10 series\10589496\10589496a.str



chain nodes :

11 12 13 14 18 19 22

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-11 5-18 6-19 8-22 11-12 12-13 12-14

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-11 5-6 5-18 6-19 7-8 8-9 8-22 11-12  
12-13 12-14

G1:C,N

G2:C,O,S,N,Ak,Cy

G3:C,Cy,Ak

G4:CN,X,C,S,N,Ak,Cb,O

G5:CN,NH2,NO2,Ak,C,H,N,X,Cb

Match level :

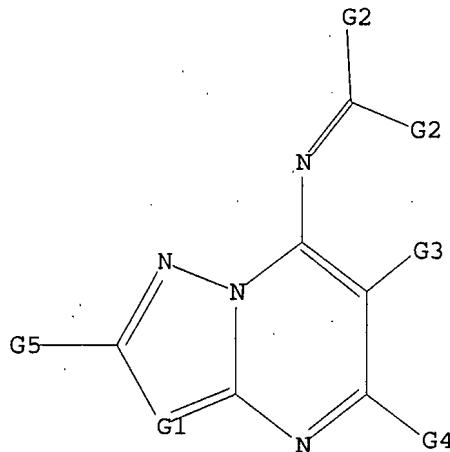
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS  
12:CLASS 13:CLASS 14:CLASS 18:CLASS 19:CLASS 22:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 C,N

G2 C,O,S,N,Ak,Cy

G3 C,Cy,Ak

G4 CN,X,C,S,N,Ak,Cb,O

G5 CN,NH2,NO2,Ak,C,H,N,X,Cb

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 17:05:14 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 914 TO ITERATE

100.0% PROCESSED 914 ITERATIONS  
SEARCH TIME: 00.00.01

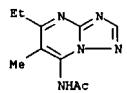
2 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 16467 TO 20093  
PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> d scan

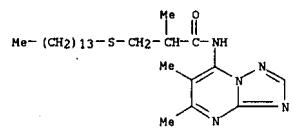
L2 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN 9-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl- (7CI)  
MF C10 H13 N5 O



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):1

L2 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN Propanamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl-  
3-(tetradecylthio)- (9CI)  
MF C25 H43 N5 O S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

ALL ANSWERS HAVE BEEN SCANNED

=> s 11 sss full  
FULL SEARCH INITIATED 17:06:04 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 18655 TO ITERATE

100.0% PROCESSED 18655 ITERATIONS  
SEARCH TIME: 00.00.01

12 ANSWERS

L3 12 SEA SSS FUL L1

=> file caplus  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
173.45	173.66

FILE 'CAPLUS' ENTERED AT 17:06:12 ON 27 JUL 2007  
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FILE COVERS 1907 - 27 Jul 2007 VOL 147 ISS 6  
FILE LAST UPDATED: 26 Jul 2007 (20070726/ED)

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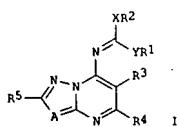
<http://www.cas.org/infopolicy.html>

=> s 13  
L4 10 L3

=> d 14 1-10 ibib abs hitstr

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:962261 CAPLUS  
 DOCUMENT NUMBER: 143:266948  
 TITLE: Preparation of azolopyrimidines as agrochemical fungicides.  
 INVENTOR(S): Schwengeler, Anja; Gewehr, Markus; Mueller, Bernd; Grote, Thomas; Grammenos, Wassilius; Tormo i Blasco, Jordi; Rheinheimer, Joachim; Blechner, Carsten; Schaefer, Peter; Schiweck, Frank; Wagner, Oliver; Stierl, Reinhard; Schoefl, Ulrich; Strathmann, Siegfried; Scherer, Maria  
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 96 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

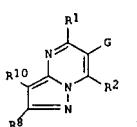
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080396	A2	20050901	WO 2005-EP1965	20050224
WO 2005080396	A3	20051124		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, U2, VC, VN, YU, ZA, ZM, ZW, SM RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZH, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BP, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1720879	A2	20061115	EP 2005-715521	20050224
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.:			DE 2004-102004009178A	20040225
OTHER SOURCE(S):	MARPAT 143:266948		WO 2005-EP1965	W 20050224
GI				



AB Title compd. I: A = N, CR6; X, Y = bond, O, S, NR7; R1, R2 = (substituted) alkyl, alkenyl, alkylnyl, cycloalkyl, cycloalkenyl, Ph, phenylalkyl, naphthyl, naphthylalkyl, (aromatic) heterocyclyl, heterocyclylalkyl, etc.; YR1, XR2 - H, cyano, NO2, halo, atoms to form (substituted) (heterocyclic) 5-7 membered rings, etc.; R3 = (substituted) alkyl, alkenyl, alkadienyl, alkylnyl, cycloalkenyl, bicycloalkyl, Ph, phenylalkyl, naphthyl, (aromatic) heterocyclyl,

L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:391719 CAPLUS  
 DOCUMENT NUMBER: 136:401776  
 TITLE: Preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compounds such as pyrazolopyrimidines  
 INVENTOR(S): Kato, Fuminori; Kimura, Hirohiko; Omatsu, Masato; Yamamoto, Kazuhiro; Miyamoto, Ryuuji  
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan  
 SOURCE: PCT Int. Appl., 102 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

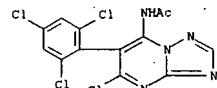
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040485	A1	20020523	WO 2001-JP10061	20011116
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, S2, T2, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2002212076	A	20020731	JP 2001-346339	20011112
CA 2429067	A1	20020523	CA 2001-2429067	20011116
AU 200215223	A	20020527	AU 2002-15223	20011116
EP 1334973	A1	20030813	EP 2001-983816	20011116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR IN 2003-KN00552				
A	20050311	IN 2003-KN552		20030430
US 2004043998	A1	20040304	US 2003-416164	20030515
US 7067520	B2	20060627		
PRIORITY APPLN. INFO.:		JP 2000-351764	A 20001117	
OTHER SOURCE(S):	CASREACT 136:401776; MARPAT 136:401776	WO 2001-JP10061	W 20011116	
GI				



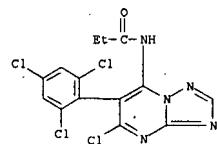
AB The title compds. I [G is CN, NO2, etc.; R1 is halogeno, etc.; R2 is halogeno, optionally substituted amino, etc.] and R8 and R10 are each independently hydrogen, halogeno, or alkyl] are prepared. Processes for preparing I are disclosed. Compds. of this invention at 50 mg/kg orally gave

L4 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 heterocyclylalkyl, etc.; R4 = halo, cyano, alkyl, haloalkyl, alkenyl, alkyl, cycloalkyl, cycloalkenyl, etc.; R5 = H, cyano, NO2, NH2, CH2NH2, halo, haloalkyl, alkyl, alkenyl, etc.), were prep'd. Thus, a 8° mixt. of POCl3 and DMF was treated with 7-amino-5-chloro-6-(2,4,6-trifluorophenyl)triazolo[1,5-a]pyrimidine hydrochloride in DMF and Et3N to give 66% I (YR1 = NMe2; XR2, R5 = H; R3 = 2,4,6-trifluorophenyl; R4 = Cl). The latter at 250 ppm reduced incidence of Alternaria solani on tomatoes to <1%, vs. 100% for untreated controls.

IT 863604-57-3 CAPLUS  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of azolopyrimidines as agrochem. fungicides)  
 RN 863604-58-4 CAPLUS  
 CN Acetamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

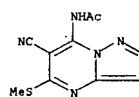


RN 863604-58-4 CAPLUS  
 CN Propanamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 statistically significant decreases of blood sugar in diabetic mice.

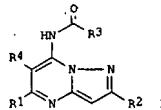
IT 429694-71-3P  
 RL: IMP (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compds. or their salts)  
 RN 429694-71-3 CAPLUS  
 CN Acetamide, N-[6-cyano-5-(methylthio)pyrazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1999:650390 CAPLUS  
 DOCUMENT NUMBER: 131:271882  
 TITLE: Preparation of pyrazolo[1,5-a]pyrimidines as nitrogen monoxide synthase inhibitors  
 INVENTOR(S): Koji, Yasuo; Okamura, Takashi; Hashimoto, Kinji;  
 Kondo, Mitsuyoshi; Shibutani, Naotaka  
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JOKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11279178	A	19991012	JP 1999-18861	19990127
PRIORITY APPLN. INFO.:			JP 1998-17068	A 19980129
OTHER SOURCE(S):	MARPAT	131:271882		
GI				



AB Title compds. [I]: R1 = CH3(CH2)3, CF3CH2CH2, FCH2CH2, (4-FC6H4)2C:CHCH2, CF3CH2OCH2, OPr-n, OEt, C6H5(CH2)3, C6H5CH2; R2 = H, 2-pyrazinyl; R3 = 4-H-C6H4, 3,4,5-(MeO)3C6H2, 2,4-(Cl)2C6H3, 4-PhSO2C6H4, 2-MeSO2C6H4, 4-MeSO2C6H4, 4-PhSOC6H4, 2-MeSC6H4, 4-MeSOC6H4, 2-AcNH-C6H4, 2-PhOC6H4, 4-PhSC6H4; R4 = H, C6H5, 2,3-(Cl)2C6H3; are prepared as nitrogen monoxide synthase inhibitors effective as pain killer and treatment or prevention of septicemia, endotoxin shock, chronic arthrorheumatism (no data). Thus, the title compound I (R1 = C6H5CH2; R2 = H; R3 = 3,4,5-(MeO)3C6H2; R4 = H) was prepared.

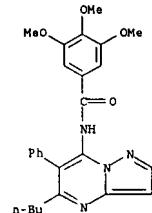
IT 245095-93-6 245096-78-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of pyrazolo[1,5-a]pyrimidines as nitrogen monoxide synthase inhibitors)

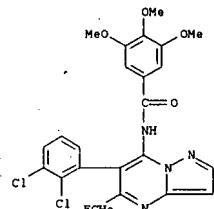
RN 245095-93-6 CAPLUS

CN Benzamide, N-(5-butyl-6-phenyl)pyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

L4 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



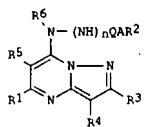
RN 245096-78-0 CAPLUS  
 CN Benzamide, N-[6-(2,3-dichlorophenyl)-5-(fluoromethyl)pyrazolo[1,5-a]pyrimidin-7-yl]-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:246630 CAPLUS  
 DOCUMENT NUMBER: 128:248613  
 TITLE: Adenosine reinforcement agents  
 INVENTOR(S): Moritoki, Hideki; Iwamoto, Takeshi; Yasuda, Tsuneo  
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JOKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10101672	A	19980421	JP 1997-208772	19970804
PRIORITY APPLN. INFO.:			JP 1996-207171	A 19960806
OTHER SOURCE(S):	MARPAT	128:248613		
GI				



AB The title compds. [I]: R1 = H, lower alkoxy or alkylthio, oxo, etc.; R2 = naphthyl, cycloalkyl, (un)substituted phenoxy, etc.; R3 = H, Ph, lower alkyl; R4 = H, lower alkyl, halo, aralkyl, etc.; R5 = H, lower alkyl; R6 = H, lower alkyl, (un)substituted benzoyl, etc.; Q = CO, SO2; A = single bond, lower alkylene or alkenylene; n = 0, 1] are presented as adenosine reinforcement agents. I, possessing adenosine reinforcement activity, are useful for prevention and treatment of heart attack, myocardial and brain infarction. Ten compds. of I were tested and showed excellent adenosine reinforcement activity. Formulation containing I were also prepared.

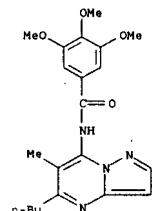
IT 174859-41-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (adenosine reinforcement agents)

RN 174859-41-7 CAPLUS

CN Benzamide, N-(5-butyl-6-methyl)pyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

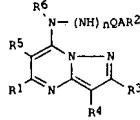
L4 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1998-246629 CAPLUS  
 DOCUMENT NUMBER: 128:248612  
 TITLE: Nitrogen monooxide synthase inhibitors  
 INVENTOR(S): Moritoki, Hideki; Iwamoto, Takeshi; Yasuda, Tsuneo  
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 10101671	A	19980421	JP 1997-207867	19970801
PRIORITY APPLN. INFO.:			JP 1996-209465	A 19960808
OTHER SOURCE(S):	MARPAT	128:248612		

GI



AB The title compds. [I], R1 = H, lower alkoxy or alkylthio, oxo, etc.; R2 = naphthyl, cycloalkyl, (un)substituted phenoxy, etc.; R3 = H, Ph, lower alkyl; R4 = H, lower alkyl halo, aralkyl, etc.; R5 = H, lower alkyl; R6 = H, lower alkyl, (un)substituted benzoyl, etc.; Q = CO, SO2; A single bond, lower alkylene or alkenylene; n = 0, 1] are presented as NO synthase inhibitors. I are useful for prevention and treatment of septicemia. 14 Compds. of I were tested and showed excellent NO synthase inhibitory activity. Formulation containing I were also prepared

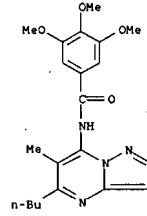
IT 174859-41-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

RN 174859-41-7 CAPLUS

CN Benzamide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

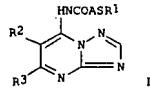
L4 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1997-465087 CAPLUS  
 DOCUMENT NUMBER: 127:81462  
 TITLE: Preparation of triazolopyrimidine derivatives as ACAT inhibitors  
 INVENTOR(S): Sato, Masakazu; Mannaka, Akira; Takahashi, Keiko; Tomizawa, Kazuyuki  
 PATENT ASSIGNEE(S): Taisho Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JKKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09169763	A	19970630	JP 1995-33247	19951221
JP 3716472	B2	20051116		
PRIORITY APPLN. INFO.:			JP 1995-33247	19951221
OTHER SOURCE(S):	MARPAT	127:81462		

GI



AB The title compds. (I), X = ASR1; A = C1-4 alkylene; R1 = C1-20 alkyl; R2 = H, C1-4 alkyl; R3 = Me, morpholinol are prepared I, possessing Acyl-CoA Cholesterolacyltransferase (ACAT) inhibitory activity, are useful as lipid lowering agents and arteriosclerosis remedies. Thus, Me(CH2)13SH was treated with NaH and then reacted with I (X = CMe2R, R2 = Me, R3 = morpholinol) (preparation given) to give the title compound I [X = CMe2S(CH2)13Me, R2 = Me, R3 = morpholinol], which showed IC50 of 6.05 X 10-6 M against ACAT when tested with rabbits.

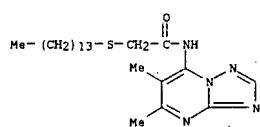
IT 191655-89-7P 191655-90-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of triazolopyrimidine derivs. as ACAT inhibitors)

RN 191655-89-7 CAPLUS

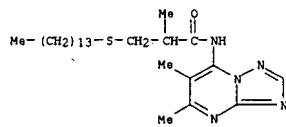
CN Acetamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-(tetradecylthio)- (9CI) (CA INDEX NAME)

L4 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 191655-90-0 CAPLUS

CN Propanamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl-3-(tetradecylthio)- (9CI) (CA INDEX NAME)



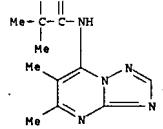
IT 191655-90-0P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of triazolopyrimidine derivs. as ACAT inhibitors)

RN 191655-90-0 CAPLUS

CN Propanamide, 2-bromo-N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl- (9CI) (CA INDEX NAME)



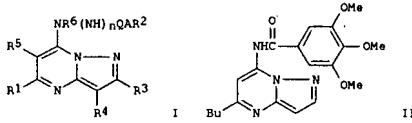
L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 19961196727 CAPLUS  
 DOCUMENT NUMBER: 124:261026  
 TITLE: Preparation and formulation of pyrazolopyrimidine derivatives as analgesics  
 INVENTOR(S): Shoji, Yasuo; Inoue, Ohara, Masayuki; Yasuda, Tsuneo  
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Factory, Inc., Japan  
 SOURCE: PCT Int. Appl., 89 pp.  
 CODEN: F1XXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9535298	A1	19951228	WO 1995-JP1104	19950605
W: AU, CA, CN, KR, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE CA 2169719	A1	19951228	CA 1995-2169719	19950605
CA 2169719	C	20020416		
AU 9525765	A	19960115	AU 1995-25765	19950605
AU 680370	B2	19970724		
EP 714898	A1	19960605	EP 1995-920260	19950605
EP 714898	B1	20011114		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE CN 1131948	A	19960925	CN 1995-190760	19950605
CN 1046730	B	19991124		
JP 08311068	A	19961126	JP 1995-137878	19950605
JP 3163412	B2	20010508		
JP 08310951	A	19961126	JP 1995-137890	19950605
JP 3163413	B2	20010508		
AT 208776	T	20011115	AT 1995-920260	19950605
ES 2164153	T3	20020216	ES 1995-920260	19950605
PT 714898	T	20020429	PT 1995-920260	19950605
US 5707997	A	19980113	US 1996-602824	19960221

PRIORITY APPLN. INFO.:

MARPAT 124:261026

GI



AB The title compds. I [R1 represents hydrogen, lower alkyl, cycloalkyl, thiaryl, furyl, lower alkenyl or phenyl; R2 represents naphthyl, cycloalkyl, furyl, thiaryl, pyridyl, phenoxy or phenyl; R3 represents

L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1966127540 CAPLUS  
 DOCUMENT NUMBER: 64:27540  
 ORIGINAL REFERENCE NO.: 64:5086g-h, 5087a-h, 5088a-d  
 TITLE: Syntheses of pyrazole derivatives. XI. Acetylation products of 7-aminoypyrazolo[1,5-a]pyrimidines. Supplement

AUTHOR(S): Takamizawa, Akira; Hamashima, Yoshiro  
 CORPORATE SOURCE: Shionogi Co., Ltd., Osaka  
 SOURCE: Chemical & Pharmaceutical Bulletin (1965), 13(10), 1207-20  
 CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal  
 LANGUAGE: English

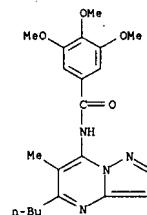
AB cf. CA 63, 5644b. The steric effect of substituents at C-6 of pyrazolopyrimidine ring on the NH group at C-7 was investigated. A mixture of 2 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine, 10 ml. Ac2O, and 20 ml. pyridine was heated at 105° for 5.5 hrs. to give 1.8 g. 7-acetamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 83-4°. The same reaction could be carried out with AcCl in pyridine. Similarly 500 mg. 2-methyl-5-phenyl-7-acetamidoypyrazolo[1,5-a]pyrimidine gave 450 mg. 2-methyl-5-phenyl-7-acetamidoypyrazolo[1,5-a]pyrimidine, m. 196-8°, and 5-phenyl-7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave 84.8% yield of 5-phenyl-7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 165-6°. On the other hand acetylation of 500 mg. 2-phenyl-7-amino-6-dimethylpyrazolo[1,5-a]pyrimidine with 5 ml. Ac2O and 15 ml. pyridine at 100° for 3 hrs. gave 84.78 2-phenyl-7-diacylamino-5,6-dimethylpyrazolo[1,5-a]pyrimidine, m. 168-9°. Mild acetylation of 500 mg. 6-phenyl-7-amino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine at 100° for 12 hrs. gave 490 mg. 6-phenyl-7-acetamido-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 228-9°, which on reacetylation at 115° for 6 hrs. gave 89.61 6-phenyl-7-diacylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 105°. These results indicated that 7-amino group gave a diacetate when an alkyl or aryl group was present at C-6. Compds. with electrones, COOT and CN groups at C-6 were examined. Thus, acetylation of 1 g. ethyl 2-methyl-7-aminopyrazolo[1,5-a]pyrimidine-6-carboxylate (I) on acetylation with 10 ml. Ac2O and 20 ml. pyridine in a sealed tube at 110° for 15 hrs. gave 330 mg. ethyl 2-methyl-7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (II), m. 169-7°, and 102 mg. ethyl 2-methyl-7-diacylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 100-1°. The diacetate on Al2O3 in CHCl3 gave II, whereas the reacetylation of II gave the diacetate. Similarly 1.5 g. ethyl 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate (III) gave 1.55 g. ethyl 7-diacylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 83-5°, which on chromatography over Al2O3 in EtOAc gave ethyl 7-acetylaminoo-2,3-dimethylpyrazolo[1,5-a]pyrimidine (IV), m. 143-5°. Methylation of 500 mg. II with 500 mg. MeI in 10 ml. acetone in a sealed tube at 110° for 5 hrs. gave ethyl 7-acetylaminoo-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (V), m. 143°. Similarly, 200 mg. IV gave 23 mg. ethyl 7-acetylaminoo-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VI), m. 176°. V and VI were also synthesized in another way. Methylation of 1.1 g. I with 0.71 g. MeI in 30 ml. acetone in a sealed tube at 100° for 6 hrs. gave the methiodide, m. 152° which was dissolved in H2O and neutralized with K2CO3 to give ethyl 7-imino-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 208°, which on acetylation at room temperature gave V identical with the above samples. Similarly, 2 g. III gave 1.42 g. hydroiodide, m. 205°, which on neutralization gave ethyl

L4 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 hydrogen, Ph or lower alkyl; R4 represents hydrogen, lower alkyl, lower alkoxycarbonyl, phenyl-substituted lower alkyl, Ph or halogen; R5 represents hydrogen or lower alkyl; R6 represents hydrogen, lower alkyl, phenyl-substituted lower alkyl or benzoyl; Q represents carbonyl or sulfonyl; A represents a single bond, lower alkylene or lower alkenylene; and n represents 0 or 1] are prep'd. The title compd. II (prepn. given) at 3 mg/Kg orally showed potent analgesic activity in rats.

IT 174859-41-7P  
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of pyrazolopyrimidine derivs. as analgesics)

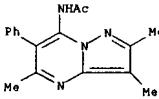
RN 174859-41-7 CAPLUS

CN Benzamide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

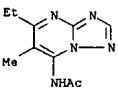


L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 7-imino-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VII), m. 228°. Its acetylation gave VI. Hydrolysis of VI and VII with 20% HCl under reflux for 24 hrs. gave the known 2,3,4-trimethylpyrazolo[1,5-a]pyrimidine-7(H)-one. Just as methylation, ethylation of 2.2 g. I gave 564 mg. ethyl 2-methyl-4-ethyl-7-imino-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 155-6°; and 2 g. III gave ethyl 4-ethyl-7-imino-2,3-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 181-2°. On the other hand acetylation of 500 mg. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile with 10 ml. pyridine and 5 ml. Ac2O at room temp. for 30 hrs. gave only the monoacetate, 7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile, m. 204-5°, which was also obtained by the acetylation at 110° for 8 hrs. An explanation was suggested to explain these results. Benzoylation was next tried. Treatment of 1 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine with 10 ml. pyridine and 1.86 g. BzCl at 110° for 1 hr. gave 1.2 g. 7-benzamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine with 10 ml. 7-amino-3,6-dimethylpyrazolo[1,5-a]pyrimidine gave 200 mg. 7-benzamido-3,6-dimethylpyrazolo[1,5-a]pyrimidine, m. 187-8°. Similarly, other 7-acylamino compds. were prep'd. Thus, a suspension of 5.7 g. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine and 5 g. K2CO3 in 40 ml. dimethylformamide was treated with ClCH2COCl and the mixed, heated on a steam bath for 6 hrs. to give 1.94 g. 7-(2-chloroacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine (VIII), m. 175°. Replacement of ClCH2COCl by (ClCH2CO)2O and carrying out the reaction in CHCl3 gave the same result. On the other hand, the reaction of 7-amino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (IX) with ClCH2COCl in CHCl3 did not proceed, but on refluxing 1 g. IX with 1 g. anhydride in CHCl2 for 5 hrs. gave 960 mg. 7-(2-chloroacetamido)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 152-3°. However when 1.76 g. IX was treated with 1.13 g. ClCH2COCl in 20 ml. dimethylformamide on a steam bath for 1 hr., the product (634 mg.) was 7-(dimethylaminomethylideneamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (X), m. 119°, whose structure was proved by its spectral data. When ClCH2COCl was replaced by AcCl, 1 g. IX gave X and 7-acetamido-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine. Reaction of 1.68 g. VIII with 1.27 g. Me2NH in CHCl3 in a sealed tube at 105° for 6.5 hrs. gave 1.28 g. 7-(2-dimethylaminoacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 168-7° which on redn. with LiAlH4 in tetrahydrofuran gave 7-(2-dimethylaminoethylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 103-4°. As expected the reaction of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave ethyl 2,3-dimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 113°, with ClCO2Et; 7-(3-dimethylureido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 163° with ClCONMe2; 7-(piperidinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 126° with piperidinocarbonyl chloride; and 7-(morpholinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 208°. It was less reactive and on treatment with ClCO2Et gave ethyl 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 133-5°. 7-Alkylamino compds. were synthesized. Hydrolysis of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine on hydrolysis gave 2,3-dimethylpyrazolo[1,5-a]pyrimidin-7(H)-one, which (200 mg.) on refluxing with 10 ml. POCl3 for 3 hrs. gave 193 mg. 7-chloro-2,3-dimethylpyrazolo[1,5-a]pyrimidin-7(H)-one, which on hydrolysis gave 88.6 2,3,6-trimethylpyrazolo[1,5-a]pyrimidin-7(H)-one, which with POCl3 gave 88.6 7-chloro-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 122°. Similarly were prep'd. 7-chloro-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine (XIII), m. 79°. A soln. of 615 mg. XI and 600 mg. NaOAc in 30 ml. MeOH was hydrogenated at room temp. in the presence of 500 mg. 5% Pd-C to absorb 76 ml. H within 5 min. to give 480 mg. 2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 54°, which on further

- L4 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 hydrogenation under the same conditions gave 76.2% 2,3-dimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 141-2°. Similarly 500 mg. XII gave 350 mg. 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 110° and 72.5% yield of 2,3,6-trimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 169-70°, and 213 mg. XIII gave 156 mg. 2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 81°, hydrochloride, m. 179°. A mixt. of 300 mg. XI and excess of MeNH<sub>2</sub> in CHCl<sub>3</sub> was heated in a sealed tube at 150° for 8 hrs. to give 7-methylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 145-6° and was also obtained by hydrogenation of 7-formamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine. Similarly were prepd. 7-methylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 157°; 7-methylamino-2,3,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 174°; 7-dimethylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 240°; 7-dimethylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 69°, hydrochloride, m. 206°; 7-dimethylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 84°, hydrochloride, m. 250°; 2,3,5-trimethyl-7-piperidinopyrazolo[1,5-a]pyrimidine, m. 132°, hydrochloride, m. 205°; 7-(dimethylcarbamoylmethylamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 185-6°, hydrochloride, m. 248°; and 7-(dimethylcarbamoylmethylamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 177°. The uv, ir, and N.M.R. spectra of all the compds. were described.
- IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-
- RL: PREP (Preparation)  
 (preparation of)
- RN 4385-22-2 CAPLUS
- CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-(8CI) (CA INDEX NAME)

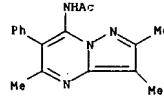


- L4 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1964:3162 CAPLUS  
 DOCUMENT NUMBER: 60:3162  
 ORIGINAL REFERENCE NO.: 60:523e-g  
 TITLE: Condensed heterocycles. IV. Condensation of 3-amino-1,2,4-triazoles with diaceto- and dipropionitriles
- AUTHOR(S): Levin, Ya. A.; Kukhtin, V. A.  
 CORPORATE SOURCE: Cine-Photo Res. Inst., Kazan  
 SOURCE: Zhurnal Obshchei Khimii (1963), 33(8), 2678-82  
 CODEN: ZOKHA4; ISSN: 0044-460X  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable  
 GI For diagram(s), see printed CA issue.
- AB Heating 3-amino-5-substituted 1,2,4-triazoles with substituted  $\beta$ -aminonitriles 30-40 min at 155-200° gave (Ia) (R, R', R'' % yield, and m.p. shown, resp.): H Me, H (I), 84, 246-7° (picrate decomposed 212-14°); Pr, Me, H, 61, 180-1°; C6H13, Me, H, 56, 128-30°; H, Et, Me (II), 72, 262-3°; Pr, Et, Me, 51, 225-6°. I refluxed with Ac<sub>2</sub>O in CSHSN gave the Ac derivative, m. 230°, similarly was prepared Ac derivative of II, m. 140°, purified on Al2O3 in C6H6. I and tosyl chloride gave 75% ptoluenesulfonamido analog, decomposed 283-5° (λ 304 nm). Treated with Br vapors at 60° in H<sub>2</sub>O, I gave 88% 4-imino-5-bromo-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 245° (λ 261 and 298 nm). I and aqueous I-KI in the presence of K<sub>2</sub>CO<sub>3</sub> at 70-80° gave 4-amino-5-iodo-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 233-5° (λ 260 and 300 nm).
- 4-Chloro-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 412°, formed in 82% yield from the 4-oxo analog by refluxing in POC13 3 hrs. Treated with NH<sub>3</sub> in EtOH at 0°, then heated 3 hrs. in an ampul at 100°, this gave 83% 4-amino-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 230-1°, which could not be prepared by the above condensation of aminotriazole with dipropionitrile even at 230°. I and concentrated HCl in 5 hrs. at 140° in a sealed tube gave 3-amino-1,2,4-triazole, isolated as the picrate, decomposed 228-30°. Ultraviolet spectra of Ia are shown.
- IT 90973-30-1P, 5-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl-
- RL: PREP (Preparation)  
 (preparation of)
- RN 90973-30-1 CAPLUS
- CN 5-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl- (7CI) (CA INDEX NAME)



- L4 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1966:11534 CAPLUS  
 DOCUMENT NUMBER: 64:11534  
 ORIGINAL REFERENCE NO.: 64:2102f-g  
 TITLE: 7-Aminopyrazolo[1,5-a]pyrimidine derivatives  
 INVENTOR(S): Takamizawa, Akira; Hayashi, Sadao; Hamashima, Yoshio  
 PATENT ASSIGNEE(S): Shionogi & Co., Ltd.  
 SOURCE: 3 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 40018757	B4	19650823	JP	19630907
PRIORITY APPLN. INFO.:			JP	19630907
GI For diagram(s), see printed CA Issue.				
AB Manufacture of I, useful as analgesics and antiinflammatory agents, was described. Thus, a solution of 500 mg. 2,3-dimethyl-7-aminopyrazolo[1,5-a]pyrimidine in 10 ml. CSHSN is heated on a steam bath 3 hrs. with 5 ml. Ac <sub>2</sub> O, the whole concentrated in vacuo, and the residue dissolved in H <sub>2</sub> O, made alkaline, and extracted with AcOEt to give 480 mg. I (R1 = R2 = Me, R3 = R4 = Ph).				
IT R5 -				
I, R6 = Ac, m. 135-6° (AcOEt). Similarly prepared are the following I (R1, R2, R3, R4, R5, R6, and m.p. given): H, Me, H, Me, Ac, Ac, 119-21°; H, Me, H, Me, H, Ac, 153°; Me, Me, H, Me, Ac, Ac, 137-8°; Me, H, Me, H, Me, H, Ac, 158-9°; Me, H, Ph, H, H, Ac, 196-8°; Me, Me, Ph, H, H, Ac, 165-6°; Me, Me, Me, Ph, H, Ac, 229-30°; Me, Me, Me, Ph, Ac, Ac, 105°.				
IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-				
RL: PREP (Preparation) (preparation of)				
RN 4385-22-2 CAPLUS				
CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-(8CI) (CA INDEX NAME)				



=> file registry			
COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION	
FULL ESTIMATED COST	63.04	236.70	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION	
CA SUBSCRIBER PRICE	-7.80	-7.80	

FILE 'REGISTRY' ENTERED AT 17:19:28 ON 27 JUL 2007  
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STRUCTURE FILE UPDATES: 26 JUL 2007 HIGHEST RN 943513-14-2  
 DICTIONARY FILE UPDATES: 26 JUL 2007 HIGHEST RN 943513-14-2

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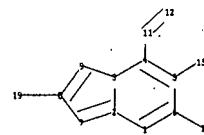
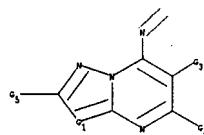
TSCA INFORMATION NOW CURRENT THROUGH December 2, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
 Uploading C:\Program Files\Stnexp\Queries\10 series\10589496\10589496b.str



chain nodes :

11 12 15 16 19

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-11 5-15 6-16 8-19 11-12

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-11 5-6 5-15 6-16 7-8 8-9 8-19 11-12

G1:C,N

G2:C,O,S,N,Ak,Cy

G3:C,Cy,Ak

G4:CN,X,C,S,N,Ak,Cb,O

G5:CN,NH2,NO2,Ak,C,H,N,X,Cb

Match level :

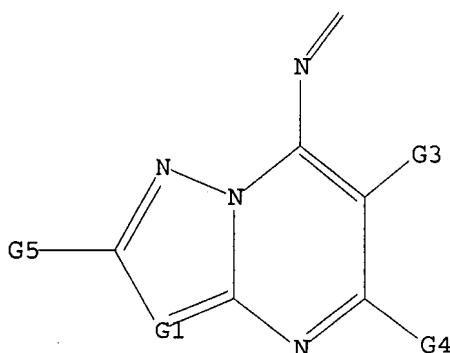
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS  
12:CLASS 15:CLASS 16:CLASS 19:CLASS

L5 STRUCTURE UPLOADED

=> d 15

L5 HAS NO ANSWERS

L5 STR



G1 C,N

G2 C,O,S,N,Ak,Cy

G3 C,Cy,Ak

G4 CN,X,C,S,N,Ak,Co,O

G5 CN,NH2,NO2,Ak,C,H,N,X,Cb

Structure attributes must be viewed using STN Express query preparation.

=> s 15

SAMPLE SEARCH INITIATED 17:19:51 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 914 TO ITERATE

100.0% PROCESSED 914 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

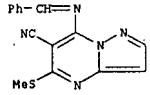
PROJECTED ITERATIONS: 16467 TO 20093

PROJECTED ANSWERS: 3 TO 163

L6 3 SEA SSS SAM L5

=> d scan

L6 3 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN Pyrazolo[1,5-a]pyrimidine-6-carbonitrile, 5-(methylthio)-7-  
((phenylmethylene)amino)- (9CI)  
MF C15 H11 N5 S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 15 sss full  
FULL SEARCH INITIATED 17:20:06 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 18655 TO ITERATE

100.0% PROCESSED 18655 ITERATIONS  
SEARCH TIME: 00.00.01

20 ANSWERS

L7 20 SEA SSS FUL L5

=> file caplus  
COST IN U.S. DOLLARS  
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
172.10	408.80

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  
CA SUBSCRIBER PRICE

SINCE FILE ENTRY	TOTAL SESSION
0.00	-7.80

FILE 'CAPLUS' ENTERED AT 17:20:11 ON 27 JUL 2007  
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FILE COVERS 1907 - 27 Jul 2007 VOL 147 ISS 6  
FILE LAST UPDATED: 26 Jul 2007 (20070726/ED)

Effective October 17, 2005, revised CAS Information Use Policies apply.  
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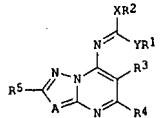
<http://www.cas.org/infopolicy.html>

=> s 17  
L8 12 L7

=> d 18 1-12 ibib abs hitstr

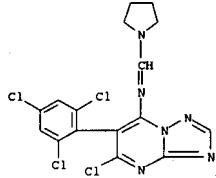
L8 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:962261 CAPLUS  
 DOCUMENT NUMBER: 143:266948  
 TITLE: Preparation of azolopyrimidines as agrochemical fungicides.  
 INVENTOR(S): Schwoegler, Anja; Gewehr, Markus; Mueller, Bernd; Grote, Thomas; Grammenos, Wassilios; Tormo i Blasco, Jordi; Rheinheimer, Joachim; Blechner, Carsten; Schaefer, Peter; Schiewek, Frank; Wagner, Oliver; Stierl, Reinhard; Schoof, Ulrich; Strathmann, Siegfried; Scherer, Maria  
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 96 pp.  
 CODEN: PIKKD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080396	A2	20050901	WO 2005-EPI965	20050224
WO 2005080396	A3	20051124		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SI, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TH, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1720879	A2	20061115	EP 2005-715521	20050224
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.: DE 2004-102004009178A 20040225				
OTHER SOURCE(S): MARPAT 143:266948				
G1				

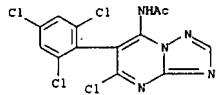


AB Title compds. [I], A = N, CR6; X, Y = bond, O, S, NR7; R1, R2 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, Ph, phenylalkyl, naphthyl, naphthylalkyl, (aromatic) heterocyclyl, heterocyclylalkyl, etc.; YR1, XR2 = H, cyano, NO2, halo, atoms to form (substituted) (heterocyclic) 5-7 membered rings, etc.; R3 = (substituted)

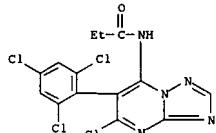
L8 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 863604-57-3 CAPLUS  
 CN Acetamide, N-[5-chloro-6-(2,4,6-trichlorophenyl){1,2,4}triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



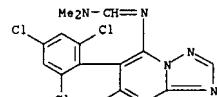
RN 863604-58-4 CAPLUS  
 CN Propanamide, N-[5-chloro-6-(2,4,6-trichlorophenyl){1,2,4}triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



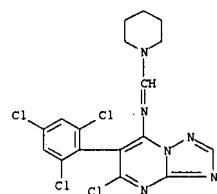
L8 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 alkyl, alkenyl, alkadienyl, alkynyl, cycloalkyl, cycloalkenyl, bicycloalkyl, Ph, phenylalkyl, naphthyl, (arom.) heterocyclyl, heterocyclylalkyl, etc.; R4 = halo, cyano, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, etc.; R5 = H, cyano, NO2, NH2, CH2NH2, halo, haloalkyl, alkyl, alkenyl, etc., were prep'd. Thus, a  $\beta$ -mixt. of POCl3 and DMF was treated with 7-amino-5-chloro-6-(2,4,6-trifluorophenyl)triazolo[1,5-a]pyrimidine hydrochloride in DMF and Et3N to give 66% I (YR1 = NH2; XR2, R5 = H; R3 = 2,4,6-trifluorophenyl; R4 = Cl). The latter at 250 ppm reduced incidence of Alternaria solani on tomatoes to  $\leq 1\%$ , vs. 100% for untreated controls.

IT 863604-54-0P 863604-55-1P 863604-56-2P  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

RN 863604-54-0 CAPLUS  
 CN Methanimidamide, N'-(5-chloro-6-(2,4,6-trichlorophenyl){1,2,4}triazolo[1,5-a]pyrimidin-7-yl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



RN 863604-55-1 CAPLUS  
 CN Piperidine, 1-[(5-chloro-6-(2,4,6-trichlorophenyl){1,2,4}triazolo[1,5-a]pyrimidin-7-yl]imino)methyl]- (9CI) (CA INDEX NAME)



RN 863604-56-2 CAPLUS  
 CN Pyrrolidine, 1-[(5-chloro-6-(2,4,6-trichlorophenyl){1,2,4}triazolo[1,5-a]pyrimidin-7-yl]imino)methyl]- (9CI) (CA INDEX NAME)

L8 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

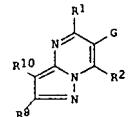
ACCESSION NUMBER: 2002:391719 CAPLUS  
 DOCUMENT NUMBER: 136:401776  
 TITLE: Preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compounds such as pyrazolopyrimidines  
 INVENTOR(S): Kato, Fuminori; Kimura, Hirohiko; Omatsu, Masato; Yamamoto, Kazuhiko; Miyamoto, Ryuuji  
 PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan  
 SOURCE: PCT Int. Appl., 102 pp.  
 CODEN: PIKKD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040485	A1	20020523	WO 2001-JP10061	20011116
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2002212076	A	20020731	JP 2001-346339	20011112
CA 2429067	A1	20020523	CA 2001-2429067	20011116
AU 200215223	A	20020527	AU 2002-15223	20011116
EP 1334973	A1	20030813	EP 2001-983816	20011116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
IN 2003KN00552	A	20050311	IN 2003-KN552	20030430
US 2004043998	A1	20040304	US 2003-416164	20030515
US 7067520	B2	20060627		

PRIORITY APPLN. INFO.: JP 2000-351764 A 20001117  
 WO 2001-JP10061 W 20011116

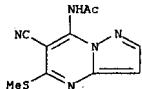
OTHER SOURCE(S): CASREACT 136:401776; MARPAT 136:401776

G1

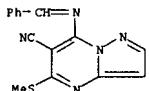


AB The title compds. I [G is CN, NO2, etc.; R1 is halogeno, etc.; R2 is halogeno, optionally substituted amino, etc.] and R8 and R10 are each independently hydrogen, halogeno, or alkyl] are prepared. Processes for preparing I are disclosed. Compds. of this invention at 50 mg/kg orally gave

L8 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 statistically significant decreases of blood sugar in diabetic mice.  
 IT 429694-71-3P 429694-96-2P  
 RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compds. or their salts)  
 RN 429694-71-3 CAPLUS  
 CN Acetamide, N-[6-cyano-5-(methylthio)pyrazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)

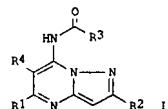


RN 429694-96-2 CAPLUS  
 CN Pyrazolo[1,5-a]pyrimidine-6-carbonitrile, 5-(methylthio)-7-[(phenylmethylene)amino]- (9CI) (CA INDEX NAME)



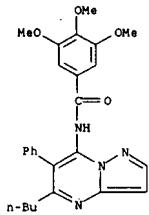
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 ACCESSION NUMBER: 1999:650390 CAPLUS  
 DOCUMENT NUMBER: 131:271882  
 TITLE: Preparation of pyrazolo[1,5-a]pyrimidines as nitrogen monoxide synthase inhibitors  
 INVENTOR(S): Koji, Yasuo; Okamura, Takashi; Hashimoto, Kinji; Kondo, Mitsuyoichi; Shibutani, Naotaka  
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.  
 CODEN: JPOOKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 JP 11279178 A 19991012 JP 1999-18861 19990127  
 PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 131:271882  
 GI

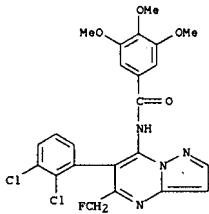


AB Title compds. [I]; R1 = CH3(CH2)3, CF3CH2CH2, FCH2CH2, (4-FC6H4)2C:CHCH2, CF3CH2OCH2, OPr-n, OEt, C6H5(CH2)3, C6H5CH2; R2 = H, 2-pyrazinyl; R3 = 4-MeC6H4, 3,4,5-(MeO)3C6H2, 2,4-(Cl)2C6H3, 4-PhSO2C6H4, 2-MeSO2C6H4, 4-MeSO2C6H4, 4-PhSO2C6H4, 2-MeSC6H4, 4-PhSC6H4; R4 = H, C6H5, 2,3-(Cl)2C6H3] are prepared as nitrogen monoxide synthase inhibitors effective as pain killer and treatment or prevention of septicemia, endotoxin shock, chronic arthrorheumatism (no data). Thus, the title compound I (R1 = C6H5CH2; R2 = H; R3 = 3,4,5-(MeO)3C6H2; R4 = H) was prepared  
 IT RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of pyrazolo[1,5-a]pyrimidines as nitrogen monoxide synthase inhibitors)  
 RN 245095-93-6 CAPLUS  
 CN Benzamide, N-(5-butyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)

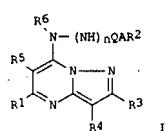
L8 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



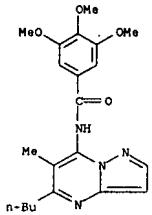
RN 245096-78-0 CAPLUS  
 CN Benzamide, N-[6-(2,3-dichlorophenyl)-5-(fluoromethyl)pyrazolo[1,5-a]pyrimidin-7-yl]-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L8 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 ACCESSION NUMBER: 1998:246630 CAPLUS  
 DOCUMENT NUMBER: 128:248613  
 TITLE: Adenosine reinforcement agents  
 INVENTOR(S): Moritoki, Hideki; Iwamoto, Takeshi; Yasuda, Tsuneo  
 PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 22 pp.  
 CODEN: JPOOKAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:  
 PATENT NO. KIND DATE APPLICATION NO. DATE  
 JP 10101672 A 19980421 JP 1997-208772 19970804  
 PRIORITY APPLN. INFO.: OTHER SOURCE(S): MARPAT 128:248613  
 GI

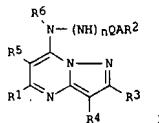


AB The title compds. [I]; R1 = H, lower alkoxy or alkylthio, oxo, etc.; R2 = naphthyl, cycloalkyl, (un)substituted phenoxy, etc.; R3 = H, Ph, lower alkyl; R4 = H, lower alkyl, halo, aralkyl, etc.; R5 = H, lower alkyl; R6 = H, lower alkyl, (un)substituted benzoyl, etc.; Q = CO, SO2; A = single bond, lower alkylene or alkynylene; n = 0, 1] are presented as adenosine reinforcement agents. I, possessing adenosine reinforcement activity, are useful for prevention and treatment of heart attack, myocardial and brain infarction. Ten compds. of I were tested and showed excellent adenosine reinforcement activity. Formulation containing I were also prepared  
 IT 174859-41-7 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (adenosine reinforcement agents)  
 RN 174859-41-7 CAPLUS  
 CN Benzamide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



L8 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1998:246629 CAPLUS  
DOCUMENT NUMBER: 1281249613  
TITLE: Nitrogen monoxide synthase inhibitors  
INVENTOR(S): Moritoki, Hideki; Iwamoto, Takeshi; Yasuda, Tsuneo  
PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan  
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.  
CODEN: JICKAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 10101671	A	19980421	JP 1997-207867	19970801
PRIORITY APPLN. INFO.:			JP 1996-209465	A 19960808
OTHER SOURCE(S):	MARPAT	128:248612		



**AB** The title compds. [*I*, *I*<sub>n</sub>, *H*, lower alkoxyl or alkylthio, oxo, etc., R<sub>2</sub> = naphthyl, cyclohexyl, (un)substituted phenyl, etc., R<sub>3</sub> = H, Ph, Ph-alkyl; R<sub>4</sub> = H, lower alkyl, halo, aryl, etc., R<sub>5</sub> = H, lower alkyl, R<sub>6</sub> = H, lower alkyl, (un)substituted benzoyl, etc., R<sub>7</sub> = CO, SO<sub>2</sub>, A = single bond, lower alkylene or alkenylene; *n* = 0, 1] are presented as NO synthase inhibitors. I are useful for prevention and treatment of septicemia. 14 Compds. of I were tested and showed excellent NO synthase inhibitory activity. Formulation containing I were also prepared.

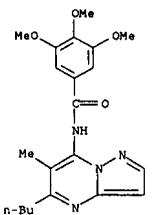
IT activity. Formulations containing I were also prepared  
174859-41-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

RN 17489-41-7 CAPLUS  
pyrazolepyrimidine derivs. as nitrogen monooxide synthase inhibitors)

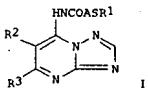
CN Benzamide, N-(5-butyl-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethyl-, (2E)- (CN, IMPD, N,N,N',N'-TETRA

trimethoxy- (9CI) (CA INDEX NAME)



L8 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1997:465087 CAPLUS  
DOCUMENT NUMBER: 127:81462  
TITLE: Preparation of triazolopyrimidine derivatives as ACAT  
inhibitors  
INVENTOR(S): Sato, Masakazu; Mannaka, Akira; Takahashi, Keiko;  
Tomizawa, Kazuyuki  
PATENT ASSIGNEE(S): Eisai Pharmaceutical Co., Ltd., Japan  
SOURCE: Jpn Kokai Tokkyo Koho, 6 pp.  
CODEN: JPOXAF  
DOCUMENT TYPE: Patent  
LANGUAGE: Japanese  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 09169763	A	19970630	JP 1995-333247	19951221
JP 3716472	B2	20051116		
PRIORITY APPLN. INFO.:				
OTHER SOURCE(S):	MARPAT	127:81462	JP 1995-333247	19951221
GI	.	.		

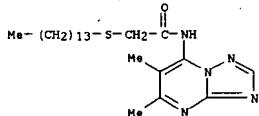


AB The title compds. (I) X = ASR<sub>1</sub>; A = Cl-4 alkylene; R<sub>1</sub> = Cl-20 alkyl; R<sub>2</sub> = H, Cl-4 alkyl; R<sub>3</sub> = Me, morpholino) are prepared I, possessing Acyl-CoA Cholesteroleacyltransferase (ACAT) inhibitory activity, are useful as lipid lowering agents and arteriosclerosis remedies. Thus, Me(CH<sub>2</sub>)<sub>13</sub>SH was treated with NaH and then reacted with I (X = CMe<sub>2</sub>R, H, Me, R<sub>3</sub> = morpholino) (preparation given) to give the title compound I [X = CMe<sub>2</sub>(CH<sub>2</sub>)<sub>13</sub>Me,

R2 = Me, R3 = morpholino), which showed IC<sub>50</sub> of 6.05 X 10<sup>-6</sup> M against ACAT when tested with rabbits.  
IT. 191655-89-7P 191655-90-OP

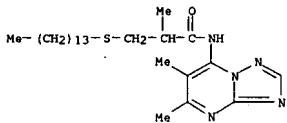
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of triazolo[1,5-a]pyrimidine derivs. as ACAT inhibitors)  
 RN 191655-89-7 CAPLUS  
 CN Acetamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-(4-methoxyphenyl)-, (E)-isomer, (4R,5S)-



RN 191655-90-0 CAPLUS

CN Propanamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl-3-(tetradecylthio)- (9CI) (CA INDEX NAME)

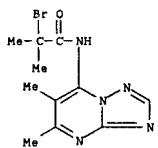


IT 191655-98-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(preparation of triazolopyrimidine derivs. as ACAT inhibitors)

RN 191655-98-8 CAPLUS

CN Propanamide, 2-bromo-N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1996:196727 CAPLUS

DOCUMENT NUMBER: 124:261026

TITLE: Preparation and formulation of pyrazolopyrimidine derivatives as analgesics

INVENTOR(S): Shoji, Yasuo; Inoue, Makoto; Okamura, Takashi;

HASHIMOTO, Kinji; Ohara, Masayuki; Yasuda, Tsuneo

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Factory, Inc., Japan

PCT Int. Appl., 89 pp.

CODEN: PIIXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9535298	A1	19951228	WO 1995-JP1104	19950605
W: AU, CA, CN, KR, US RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE CA 2169719	A1	19951228	CA 1995-2169719	19950605
CA 2169719	C	20020416		
AU 9525765	A	19960115	AU 1995-25765	19950605
AU 680370	B2	19970724		
EP 714898	A1	19960605	EP 1995-920260	19950605
EP 714898	B1	20011114		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE CN 1131948	A	19960925	GR 1995-190760	19950605
CN 1046730	B	19991124		
JP 08311068	A	19961126	JP 1995-137878	19950605
JP 08310951	A	19961126	JP 1995-137890	19950605
JP 3163413	B2	20010509		
AT 209776	T	20011115	AT 1995-920260	19950605
ES 2164153	T3	20020216	ES 1995-920260	19950605
PT 714898	T	20020429	PT 1995-920260	19950605
US 5707997	A	19980113	US 1996-602824	19960221

PRIORITY APPLN. INFO.:

GI OTHER SOURCE(S):

MARPAT 124:261026

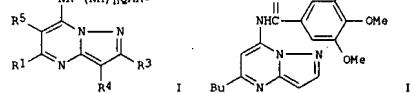
A 1994-138635

JP 1995-53987

A 19950314

WO 1995-JP1104 W 19950605

GI



AB The title compds. I (R1 represents hydrogen, lower alkyl, cycloalkyl, thienyl, furyl, lower alkenyl or phenyl; R2 represents naphthyl, cycloalkyl, furyl, thiényl, pyridyl, phenoxy or phenyl; R3 represents

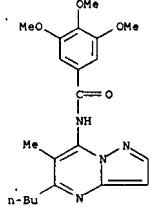
hydrogen, Ph or lower alkyl; R4 represents hydrogen, lower alkyl, lower alkoxy carbonyl, phenyl-substituted lower alkyl, Ph or halogen; R5 represents hydrogen or lower alkyl; R6 represents hydrogen, lower alkyl, phenyl-substituted lower alkyl or benzoyl; Q represents carbonyl or sulfonyl; A represents a single bond, lower alkylene or lower alkenylene; and n represents 0 or 1) are prep'd. The title compd. II (prep. given) at 3 mg/Kg orally showed potent analgesic activity in rats.

IT 174859-41-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of triazolopyrimidine derivs. as analgesics)

RN 174859-41-7 CAPLUS

CN Benzamide, N-(5-butyl)-6-methylpyrazolo[1,5-a]pyrimidin-7-yl)-3,4,5-trimethoxy- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1991:101919 CAPLUS

DOCUMENT NUMBER: 114:101919

TITLE: 1,2,4-Triazolo[1,5-a]pyrimidines. Part 8. Reactions of amino- and hydrazino-1,2,4-triazolo[1,5-a]pyrimidine derivatives with dimethylformamide dimethyl acetal

AUTHOR(S): Hempel, Ute; Lippmann, Eberhard; Tenor, Ernst

CORPORATE SOURCE: Sekt. Chem., Karl-Marx-Univ., Leipzig, DDR-7010, Ger.

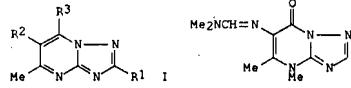
Dem. Rep.

DOCUMENT TYPE: Zeitschrift fuer Chemie (1990), 30(9), 320-1

LANGUAGE: German

OTHER SOURCE(S): CASREACT 114:101919

GI



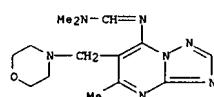
AB The preparation of amidine derivs. of Rocornal was described. The amidination of 7-amino-1,2,4-triazolo[1,5-a]pyrimidine derivs. with Me2NCH(OMe)2 gave N,N-dimethyl-N'-(5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)formamidines I (R1 = H, NHCOMe; R2 = H, pipеридинометил, morpholinomethyl, pyrrolidinomethyl, CH2NEt2, NO2; R3 = N(CHMe)2). The reaction of I (R1 = H, R2 = H, R3 = N(CHMe)2) with H2NOH.HCl gave N-(5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)formamidoxime. The reaction of 7-hydrazino-5-methyl-1,2,4-triazolo[1,5-a]pyrimidine with Me2NCH(OMe)2 gave only the methylated product, i.e., N,N-dimethyl-N'-(5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)formamidrazone. The reaction of 6-amino-5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7(4H)-one with Me2NCH(OMe)2 gave the amidrazone II.

IT 122375-46-6P 122375-48-8P 122375-49-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

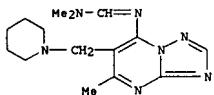
RN 122375-46-6 CAPLUS

CN Methanimidamide, N,N-dimethyl-N'-(5-methyl-6-(morpholinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)

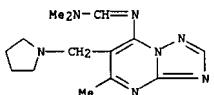


RN 122375-48-8 CAPLUS

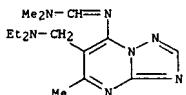
CN Methanimidamide, N,N-dimethyl-N'-(5-methyl-6-(1-piperidinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



RN 122375-49-9 CAPLUS  
CN Methanimidamide, N,N-dimethyl-N'-(5-methyl-6-(1-pyrrolidinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)

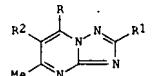


RN 122375-50-2 CAPLUS  
CN Methanimidamide, N'-(6-[(diethylamino)methyl]-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



L8 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 1989;515204 CAPLUS  
DOCUMENT NUMBER: 111:115204  
TITLE: Preparation of N,N-dimethyl-N'-(5-methyl-1,2,4-triazolo[1,5-a]pyrimidin-7-yl)formamides  
INVENTOR(S): Hempel, Ute; Lippmann, Eberhard; Stopp, Helga; Tenor, Ernst; Thomas, Eckhard  
PATENT ASSIGNEE(S): VEB Deutsches Hydrierwerk, Ger. Dem. Rep.  
SOURCE: Ger. (East), 3 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 264438	A1	19890201	DD 1987-306940	19870914
			DD 1987-306940	19870914
OTHER SOURCE(S):	CASREACT	111:115204; MARPAT	111:115204	

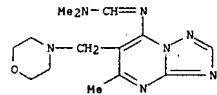


AB The title compds. (I: R = NHMe2; R1 = H, alkyl; R2 = H, piperidinomethyl, morpholinomethyl, pyrrolidinomethyl, CH2NET2) were prepared by condensation of I (R = NH2) with HC(OEt)2NMe2 (II). Thus, I (R = NH2, R1 = R2 = H) was refluxed 2 h in II in PhMe to give 66% (R = NCH2Me2, R1 = R2 = H).

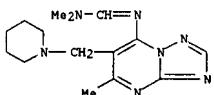
IT 122375-46-6P 122375-48-8P 122375-49-9P

RL: SPN (Synthetic preparation); PREP (Preparation)  
(preparation of)

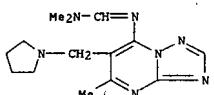
RN 122375-46-6 CAPLUS  
CN Methanimidamide, N,N-dimethyl-N'-(5-methyl-6-(4-morpholinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



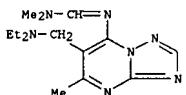
RN 122375-48-8 CAPLUS  
CN Methanimidamide, N,N-dimethyl-N'-(5-methyl-6-(1-piperidinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



RN 122375-49-9 CAPLUS  
CN Methanimidamide, N,N-dimethyl-N'-(5-methyl-6-(1-pyrrolidinylmethyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)- (9CI) (CA INDEX NAME)



RN 122375-50-2 CAPLUS  
CN Methanimidamide, N'-(6-[(diethylamino)methyl]-5-methyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-N,N-dimethyl- (9CI) (CA INDEX NAME)



ACCESSION NUMBER: 1966;27540 CAPLUS  
DOCUMENT NUMBER: 64:27540  
ORIGINAL REFERENCE NO.: 64:5086g-h,5087a-h,5088a-d  
TITLE: Syntheses of pyrazole derivatives. XI. Acetylation products of 7-aminoypyrazolo[1,5-a]pyrimidines. Supplement

AUTHOR(S): Takamizawa, Akira; Hamashima, Yoshio  
CORPORATE SOURCE: Shionogi Co., Ltd., Osaka  
SOURCE: Chemical & Pharmaceutical Bulletin (1965), 13(10), 1207-20

DOCUMENT TYPE: CPBTAL; ISSN: 0009-2363  
LANGUAGE: English

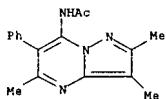
AB cf. CA 63, 5644b. The steric effect of substituents at C-6 of pyrazolopyrimidine ring on the NH2 group at C-7 was investigated. A mixture of 2 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine, 10 ml. Ac2O, and 20 ml. pyridine was heated at 80° for 1.8 hrs. to give 1.8 g. 7-acetamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 83-9°. The same reaction could be carried out with AcCl in pyridine. Similarly 500 mg. 2-methyl-5-phenyl-7-aminoypyrazolo[1,5-a]pyrimidine gave 450 mg. 2-methyl-5-phenyl-7-acetamidoypyrazolo[1,5-a]pyrimidine, m. 196-8°; and 5-phenyl-7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave 84.8% yield of 5-phenyl-7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 165-6°. On the other hand acetylation of 500 mg. 2-phenyl-5-6-dimethylpyrazolo[1,5-a]pyrimidine with 5 ml. Ac2O and 15 ml. pyridine at 100° for 3 hrs. gave 84.7% 2-phenyl-7-diacetylaminopyrazolo[1,5-a]pyrimidine, m. 168-9°. Mild acetylation of 500 mg. 6-phenyl-7-amino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine at 100° for 12 hrs. gave 490 mg. 6-phenyl-7-acetamido-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 228-9°, which on reacetylation at 115° for 6 hrs. gave 89.6% 6-phenyl-7-diacetylaminopyrazolo[1,5-a]pyrimidine, m. 105°. These results indicated that 7-amino group gave a diacetate when an alkyl or aryl group was present at C-6. Compds. with electroneg. COOEt and CN groups at C-6 were examined. Thus, acetylation of 1 g. ethyl 2-methyl-7-aminoypyrazolo[1,5-a]pyrimidine-6-carboxylate (I) on acetylation with 10 ml. Ac2O and 20 ml. pyridine in a sealed tube at 110° for 15 hrs. gave 338 mg. ethyl 2-methyl-7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (II), m. 169-70°, and 102 mg. ethyl 2-methyl-7-diacetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 100-3°. The diacetate on Al2O3 in CHCl3 gave II, whereas the reacetylation of II gave the diacetate. Similarly 1.5 g. ethyl 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate (III) gave 1.55 g. ethyl 7-diacetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 83-5°, which on chromatography over Al2O3 in EtOAc gave ethyl 7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (IV), m. 143-5°. Methylation of 500 mg. II with 500 mg. MeI in 10 ml. acetone in a sealed tube at 110° for 5 hrs. gave ethyl 7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (V), m. 143°. Similarly, 200 mg. IV gave 23 mg. ethyl 7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (VI), m. 176°. V and VI were also synthesized in another way. Methylation of 1.1 g. I with 0.71 g. MeI in 30 ml. acetone in a sealed tube at 100° for 6 hrs. gave the methiodide, m. 152° which was dissolved in H2O and neutralized with K2CO3 to give ethyl 7-imino-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 208°, which on acetylation at room temperature gave V identical with the above samples. Similarly, 2 g. III gave 1.42 g. hydriodide, m. 205°, which on neutralization gave ethyl

L8 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 7-imino-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VII), m. 228°. Its acetylation gave VI. Hydrolysis of VII and VIII with 20% HCl under reflux for 24 hrs. gave the known 2,3,4-trimethylpyrazolo[1,5-a]pyrimidine-7(4H)-one. Just as methylation, ethylation of 2,2 g. I gave 564 mg. ethyl 2-methyl-4-ethyl-7-imino-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 155-6°; and 2 g. III gave ethyl 4-ethyl-7-imino-2,3-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 181-2°. On the other hand acetylation of 500 mg. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile with 10 ml. pyridine and 5 ml. Ac2O at room temp. for 30 hrs. gave only the monoacetate, 7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile, m. 204-5°, which was also obtained by the acetylation at 110° for 8 hrs. An explanation was suggested to explain these results. Benzoylation was next tried. Treatment of 1 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine with 10 ml. pyridine and 1.86 g. BzCl at 110° for 1 hr. gave 1.2 g. 7-benzamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 138-9°. Similarly, 250 mg. 7-amino-3,6-dimethylpyrazolo[1,5-a]pyrimidine gave 200 mg. 7-benzamido-3,6-dimethylpyrazolo[1,5-a]pyrimidine, m. 187-8°. Similarly, other 7-acylamin compds. were prep'd. Thus, a suspension of 5.7 g. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine and 5 g. K2CO3 in 40 ml. dimethylformamide was treated with ClCH2COCl and the mixt. heated on a steam bath for 6 hrs. to give 1.94 g. 7-(2-chloroacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine (VIII), m. 175°. Replacement of ClCH2COCl by (ClCH2CO)2 and carrying out the reaction in CHCl3 gave the same result. On the other hand, the reaction of 7-amino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (IX) with ClCH2COCl in CHCl3 did not proceed, but on refluxing 1 g. IX with 1 g. Me2NNH2 in CHCl3 for 5 hrs. gave 960 mg. 7-(2-chloracetamido)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 152-3°. However when 1.76 g. IX was treated with 1.13 g. ClCH2COCl in 20 ml. dimethylformamide on a steam bath for 1 hr., the product (634 mg.) was 7-(dimethylaminomethylideneamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (X), m. 119°, whose structure was proved by its spectral data. When ClCH2COCl was replaced by AcCl, 1 g. IX gave X and 7-acetamido-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine. Reaction of 1.68 g. VIII with 1.27 g. Me2NNH2 in CHCl3 in a sealed tube at 105° for 6.5 hrs. gave 1.28 g. 7-(2-dimethylaminocetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 103-4°. As expected the reaction of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave ethyl 2,3-dimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 113°, with ClCO2Et, 7-(3,3-dimethylureido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 163° with ClCONMe2, 7-(piperidinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 126° with piperidinocarbonyl chlorides, and 7-(morpholinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 208°. IX was less reactive and on treatment with ClCO2Et gave ethyl 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 133-5°. 7-Alkylamin compds. were synthesized. Hydrolysis of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine on hydrolysis gave 2,3-dimethylpyrazolo[1,5-a]pyrimidin-7(4H)-one, which (200 mg.) on refluxing with 10 ml. POC13 for 3 hrs. gave 193 mg. 7-chloro-2,3-dimethylpyrazolo[1,5-a]pyrimidine (XI), m. 113°. Similarly, IX on hydrolysis gave 2,3,6-trimethylpyrazolo[1,5-a]pyrimidin-7(4H)-one, which with POC13 gave 86% 7-chloro-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 122°. Similarly were prep'd. 7-chloro-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (XII), m. 79°. A soln. of 615 mg. XI and 600 mg. NaOAc in 30 ml. MeOH was hydrogenated at room temp. in the presence of 500 mg. 5% Pd-C to absorb 76 ml. H within 5 min. to give 480 mg. 2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 54°, which on further

L8 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 hydrogenation under the same conditions gave 76.2% 2,3-dimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 141-2°. Similarly 500 mg. XII gave 350 mg. 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 110° and 22.5% yield of 2,3,6-trimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 169-70°; and 213 mg. XIII gave 156 mg. 2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 81°, hydrochloride, m. 179°. A mixt. of 300 mg. XI and excess of MeNH2 in CHCl3 was heated in a sealed tube at 150° for 8 hrs. to give 7-methylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 145-6° and was also obtained by hydrogenation of 7-formamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine. Similarly were prep'd. 7-methylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 171°; 7-methylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 174°; 7-dimethylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 71°, hydrochloride, m. 240°; 7-dimethylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 69°, hydrochloride, m. 206°; 7-dimethylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 84°, hydrochloride, m. 250°; 2,3,5-trimethyl-7-piperidinopyrazolo[1,5-a]pyrimidine, m. 132°, hydrochloride, m. 205°; 7-(dimethylcarbamoylmethylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 185-6°, hydrochloride, m. 248°; and 7-(dimethylcarbamoylmethylamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 177°. The uv, ir, and N.M.R. spectra of all the compds. were described.

IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-  
 RL: PREP (Preparation)  
 (preparation of)

RN 4385-22-2 CAPLUS  
 CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-  
 (8CI) (CA INDEX NAME)



L8 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 1966:11534 CAPLUS  
 DOCUMENT NUMBER: 64:11534  
 ORIGINAL REFERENCE NO.: 64:2102F-g  
 TITLE: 7-Aminopyrazolo[1,5-a]pyrimidine derivatives  
 INVENTOR(S): Takamizawa, Akira; Hayashi, Sadao; Hamashima, Yoshio  
 PATENT ASSIGNEE(S): Shinogi & Co., Ltd.  
 SOURCE: 3 pp.  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Unavailable  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE  
 ----- ---- ----- -----  
 JP 40018757 B4 19650823 JP 19630907  
 PRIORITY APPLN. INFO.: JP 19630907

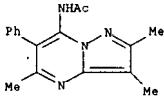
GI For diagram(s), see printed CA Issue.

AB Manufacture of 1, useful as analgesics and antiinflammatory agents, was described. Thus, a solution of 500 mg. 2,3-dimethyl-7-aminopyrazolo[1,5-a]pyrimidine in 10 ml. C5H5N is heated on a steam bath 3 hrs. with 5 ml. Ac2O, the whole concentrated in vacuo, and the residue dissolved in H2O, made alkaline, and extracted with AcOEt to give 480 mg. I (R1 = R2 = Me, R3 = R4 = H, R5 = Ac), m. 135-6° (AcOEt). Similarly prepared are the following I (R1, R2, R3, R4, R5, R6, and m.p. given): H, Me, H, Me, Ac, Ac, 119-21°; H, Me, H, Me, H, Ac, 153°; Me, Me, H, Me, Ac, Ac, 137-8°; Me, Me, H, Me, H, Ac, 158-9°; Me, H, Ph, H, H, Ac, 196-8°; Me, Me, Ph, H, H, Ac, 165-6°; Me, Me, Me, Ph, H, Ac, 229-30°; Me, Me, Me, Ph, Ac, Ac, 105°.

IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-

RL: PREP (Preparation)  
 (preparation of)

RN 4385-22-2 CAPLUS  
 CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-  
 (8CI) (CA INDEX NAME)



L8 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1964:3162 CAPLUS  
 DOCUMENT NUMBER: 60:3162  
 ORIGINAL REFERENCE NO.: 60:523e-g  
 TITLE: Condensed heterocycles. IV. Condensation of 3-amino-1,2,4-triazoles with diaceto- and dipropionitriles

AUTHOR(S): Levin, Ya. A.; Rukhtin, V. A.

CORPORATE SOURCE: Cine-Photo Res. Inst., Kazan

SOURCE: Zhurnal Obozrhei Khimi (1963), 33(8), 2678-82

CODEN: ZOKHA4; ISSN: 0044-460X

DOCUMENT TYPE: Journal

LANGUAGE: Unavailable

GI For diagram(s), see printed CA Issue.

AB Heating 3-amino-5-substituted 1,2,4-triazoles with substituted β-aminoacrylonitriles 30-40 min at 155-200° gave (Ia) (R, R', R'' % yield, and m.p. shown, resp.): H, Me, H (I), 84, 246-7° (picrate decomposed 212-14°); Pr, Me, H, 61, 180-1°; C6H13, Me, H, 56, 128-30°; H, Et, Me (II), 72, 262-3°; Pr, Et, Me, 51, 225-6°. I refluxed with Ac2O in C5H5N gave the Ac derivative, m. 230°; similarly was prepared Ac derivative of II, m. 1402°, purified on Al2O3 in C6H6. I and tosyl chloride gave 75% p toluenesulfonfumaldo analog, decomposed 283-5° (λ 304 mp).

Treated with Br vapors at 60° in H2O, I gave 88%

4-imino-3-bromo-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 245° (λ 261 and 298 mp). I and aqueous I-KI in the presence of K2CO3 at 70-80° gave 4-amino-6-methyl-5-iodo-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 233-5° (λ 260 and 300 mp).

4-Chloro-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 412°, formed in 82% yield from the 4-oxo analog by refluxing in POC13 3 hrs. Treated with NH3 in EtOH at 0°, then heated 3 hrs. in an ampul at 100°, this gave 83% 4-amino-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 230-1°, which could not be prepared by the above condensation of aminotriazole with dipropionitrile even at 230°. I and concentrated HCl in 5 hrs. at 140° in a sealed tube gave 3-amino-1,2,4-triazole, isolated as the picrate, decomposed 228-30°. Ultraviolet spectra of Ia are shown.

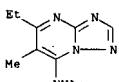
IT 90973-30-1P, 5-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-

methyl-

RL: PREP (Preparation)  
 (preparation of)

RN 90973-30-1 CAPLUS

5-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl- (7CI) (CA INDEX NAME)



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L7           20 S L5 SSS FULL

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L8           12 S L7

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NEWS 6 MAR 30   RDISCLOSURE reloaded with enhancements  
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NEWS 8 APR 30   GENBANK reloaded and enhanced with Genome Project ID field  
NEWS 9 APR 30   CHEMCATS enhanced with 1.2 million new records  
NEWS 10 APR 30   CA/Cplus enhanced with 1870-1889 U.S. patent records  
NEWS 11 APR 30   INPADOC replaced by INPADOCDB on STN

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NEWS 13 MAY 08 CA/CAplus Indian patent publication number format defined  
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NEWS 17 MAY 21 CA/CAplus enhanced with additional kind codes for German patents  
NEWS 18 MAY 22 CA/CAplus enhanced with IPC reclassification in Japanese patents  
NEWS 19 JUN 27 CA/CAplus enhanced with pre-1967 CAS Registry Numbers  
NEWS 20 JUN 29 STN Viewer now available  
NEWS 21 JUN 29 STN Express, Version 8.2, now available  
NEWS 22 JUL 02 LEMBASE coverage updated  
NEWS 23 JUL 02 LMEDLINE coverage updated  
NEWS 24 JUL 02 SCISEARCH enhanced with complete author names  
NEWS 25 JUL 02 CHEMCATS accession numbers revised  
NEWS 26 JUL 02 CA/CAplus enhanced with utility model patents from China  
NEWS 27 JUL 16 CAplus enhanced with French and German abstracts  
NEWS 28 JUL 18 CA/CAplus patent coverage enhanced  
NEWS 29 JUL 26 USPATFULL/USPAT2 enhanced with IPC reclassification

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CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
AND CURRENT DISCOVER FILE IS DATED 05 JULY 2007.

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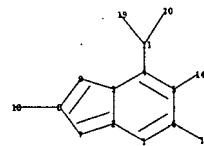
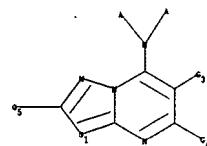
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chain nodes :

11 14 15 18 19 20

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-11 5-14 6-15 8-18 11-19 11-20

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-11 5-6 5-14 6-15 7-8 8-9 8-18 11-19  
11-20

G1:C,N

G2:C,O,S,N,Ak,Cy

G3:C,Cy,Ak

G4:CN,X,C,S,N,Ak,Cb,O

G5:CN,NH2,NO2,Ak,C,H,N,X,Cb

Match level :

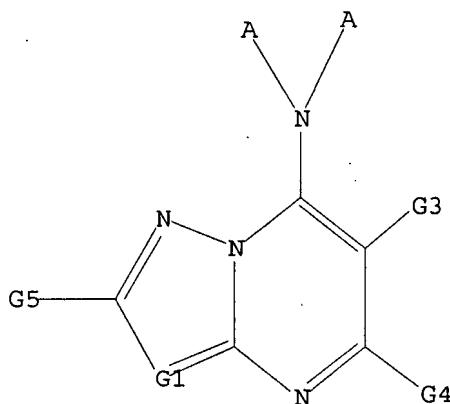
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14:CLASS 15:CLASS 18:CLASS 19:CLASS 20:CLASS

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

L1 STR



G1 C,N

G2 C,O,S,N,Ak,Cy

G3 C,Cy,Ak

G4 CN,X,C,S,N,Ak,Cb,O

G5 CN,NH2,NO2,Ak,C,H,N,X,Cb

Structure attributes must be viewed using STN Express query preparation.

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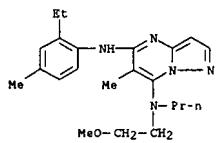
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PROJECTED ANSWERS: 346 TO 1054

L2 35 SEA SSS SAM L1

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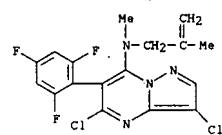
L2 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN Pyrazolo[1,5-a]pyrimidine-5,7-diamine, N5-(2-ethyl-4-methylphenyl)-N7-(2-methoxyethyl)-6-methyl-N7-propyl- (9CI)  
MF C22 H31 N5 O



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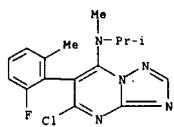
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L2 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN Pyrazolo[1,5-a]pyrimidin-7-amine, 3,5-dichloro-N-methyl-N-(2-methyl-2-propenyl)-6-(2,4,6-trifluorophenyl)- (9CI)  
MF C17 H13 Cl2 F3 N4



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L2 35 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN [1,2,4]Triazolo[1,5-a]pyrimidin-7-amine, 5-chloro-6-(2-fluoro-6-methylphenyl)-N-methyl-N-(1-methylethyl)- (9CI)  
MF C16 H17 Cl F N5

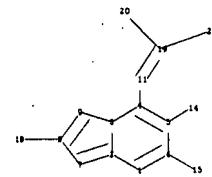
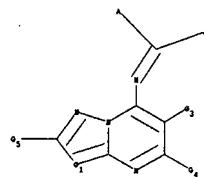


\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=>

Uploading C:\Program Files\Stnexp\Queries\10 series\10589496\10589496d.str



chain nodes :

11 14 15 18 19 20 21

ring nodes :

1 2 3 4 5 6 7 8 9

chain bonds :

4-11 5-14 6-15 8-18 11-19 19-20 19-21

ring bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 5-6 7-8 8-9

exact/norm bonds :

1-2 1-6 2-3 2-7 3-4 3-9 4-5 4-11 5-6 5-14 6-15 7-8 8-9 8-18 11-19  
19-20 19-21

G1:C,N

G2:C,O,S,N,Ak,Cy

G3:C,Cy,Ak

G4:CN,X,C,S,N,Ak,Cb,O

G5:CN,NH2,NO2,Ak,C,H,N,X,Cb

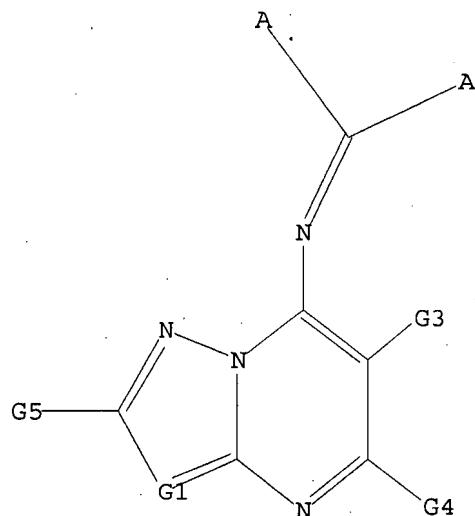
Match level :  
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS  
14:CLASS 15:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS

L3 STRUCTURE UPLOADED

=> d 13

L3 HAS NO ANSWERS

L3 STR



G1 C,N

G2 C,O,S,N,Ak,Cy

G3 C,Cy,Ak

G4 CN,X,C,S,N,Ak,Cb,O

G5 CN,NH2,NO2,Ak,C,H,N,X,Cb

Structure attributes must be viewed using STN Express query preparation.

=> s 13

SAMPLE SEARCH INITIATED 17:37:39 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 914 TO ITERATE

100.0% PROCESSED 914 ITERATIONS

2 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

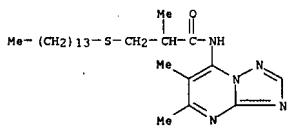
PROJECTED ITERATIONS: 16467 TO 20093

PROJECTED ANSWERS: 2 TO 124

L4 2 SEA SSS SAM L3

=> d scan

L4 2 ANSWERS REGISTRY COPYRIGHT 2007 ACS on STN  
IN Propanamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl-  
MF 3-(tetradecylcyllo)- (9Cl)  
C25 H43 N5 O S



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> s 13 full sss  
FULL SEARCH INITIATED 17:38:38 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 18655 TO ITERATE

100.0% PROCESSED 18655 ITERATIONS  
SEARCH TIME: 00.00.01

8 ANSWERS

L5 8 SEA SSS FUL L3

=> file caplus  
COST IN U.S. DOLLARS SINCE FILE TOTAL  
FULL ESTIMATED COST ENTRY SESSION  
174.35 174.77

FILE 'CAPLUS' ENTERED AT 17:38:48 ON 27 JUL 2007  
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FILE COVERS 1907 - 27 Jul 2007 VOL 147 ISS 6  
FILE LAST UPDATED: 26 Jul 2007 (20070726/ED)

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L6 6 L5

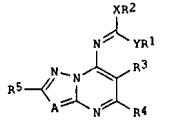
=> d 16 1-6 ibib abs hitstr

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2005:962261 CAPLUS  
 DOCUMENT NUMBER: 143:266948  
 TITLE: Preparation of azolopyrimidines as agrochemical fungicides.  
 INVENTOR(S): Schwoegler, Anja; Gewehr, Markus; Mueller, Bernd; Grote, Thomas; Grammenos, Wassilius; Tormo i Blasco, Jordi; Rheinheimer, Joachim; Blechner, Carsten; Schaefer, Peter; Schieweck, Frank; Wagner, Oliver; Stierl, Reinhard; Schoefl, Ulrich; Strathmann, Siegfried; Scherer, Maria  
 PATENT ASSIGNEE(S): BASF Aktiengesellschaft, Germany  
 SOURCE: PCT Int. Appl., 96 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: German  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005080396	A2	20050901	WO 2005-EP1965	20050224
WO 2005080396	A3	20051124		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, SM BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1720879	A2	20061115	EP 2005-715521	20050224
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR				
PRIORITY APPLN. INFO.: DE 2004-102004009178A			WO 2005-EP1965	20050224

OTHER SOURCE(S): MARPAT 143:266948

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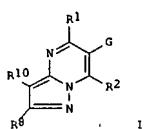


AB Title compds. [I]: A = N, CR6; X, Y = bond, O, S, NR7; R1, R2 = (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, Ph, phenylalkyl, naphthyl, naphthylalkyl, (aromatic) heterocyclyl, heterocyclylalkyl, etc.; R1, XR2 = H, cyano, NO2, halo, atoms to form (substituted) (heterocyclic) 5-7 membered rings, etc.; R3 = (substituted)

L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 2002:391719 CAPLUS  
 DOCUMENT NUMBER: 136:401776  
 TITLE: Preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compounds such as pyrazolopyrimidines  
 INVENTOR(S): Kato, Fuminori; Kimura, Hirohiko; Omatsu, Masato; Yamamoto, Kazuhiro; Miyamoto, Ryuji; Ishihara Sango Kaisha, Ltd., Japan  
 PATENT ASSIGNEE(S): SOURCE: PCT Int. Appl., 102 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002040485	A1	20020523	WO 2001-JP10061	20011116
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KP, KR, KZ, LC, LK, LR, LS, LT, LU, MV, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2002212076	A	20020731	JP 2001-346339	20011112
CA 2429067	A1	20020523	CA 2001-2429067	20011116
AU 200215223	A	20020527	AU 2002-15223	20011116
EP 1334973	A1	20030813	EP 2001-983816	20011116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR IN 2003-KN00552 A 20050311 IN 2003-KN552 20030430 US 2004043398 A1 20040304 US 2003-416164 20030515 US 7067520 B2 20060627				
PRIORITY APPLN. INFO.: IN 2003-KN00552			JP 2000-351764	A 20001117
OTHER SOURCE(S): SOURCE: CASREACT 136:401776; MARPAT 136:401776			WO 2001-JP10061	20011116

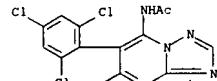
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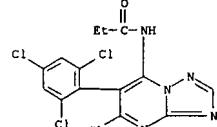
AB The title compds. I [G is CN, NO2, etc.; R1 is halogeno, etc.; R2 is halogeno, optionally substituted amino, etc.; and R6 and R10 are each independently hydrogen, halogeno, or alkyl] are prepared. Processes for preparing I are disclosed. Compds. of this invention at 50 mg/kg orally gave

L6 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 alkyl, alkenyl, alkadienyl, alkynyl, cycloalkyl, cycloalkenyl, bicycloalkyl, Ph, phenylalkyl, naphthyl, (aromatic) heterocyclyl, heterocyclylalkyl, etc.; R4 = halo, cyano, alkyl, haloalkyl, alkenyl, alkynyl, cycloalkyl, cycloalkenyl, etc.; R5 = H, cyano, NO2, NH2, CH2NH2, halo, haloalkyl, alkyl, alkenyl, etc., were prep'd. Thus, a 8% mixt. of POCl3 and DMF was treated with 7-amino-5-chloro-6-(2,4,6-trifluorophenyl)triazolo[1,5-a]pyrimidine hydrochloride in DMF and Et3N to give 66% I (YR1 = NMe2) XR2, R5 = H; R3 = 2,4,6-trifluorophenyl; R4 = Cl). The latter at 250 ppm reduced incidence of Alternaria solani on tomatoes to 5%, vs. 100% for untreated controls.

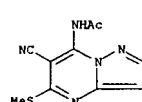
IT 863604-57-3 CAPLUS  
 RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 RN 863604-57-3 CAPLUS  
 CN Acetamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



RN 863604-58-4 CAPLUS  
 CN Propanamide, N-[5-chloro-6-(2,4,6-trichlorophenyl)[1,2,4]triazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



L6 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
 statistically significant decreases of blood sugar in diabetic mice.  
 IT 429694-71-3 CAPLUS  
 RL: IMP (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)  
 (preparation of preventive or therapeutic medicines for diabetes containing fused-heterocycle compds. or their salts)  
 RN 429694-71-3 CAPLUS  
 CN Acetamide, N-[6-cyano-5-(methylthio)pyrazolo[1,5-a]pyrimidin-7-yl]- (9CI) (CA INDEX NAME)



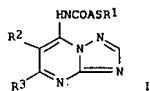
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

AB The title compds. I [G is CN, NO2, etc.; R1 is halogeno, etc.; R2 is halogeno, optionally substituted amino, etc.; and R6 and R10 are each independently hydrogen, halogeno, or alkyl] are prepared. Processes for preparing I are disclosed. Compds. of this invention at 50 mg/kg orally gave

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN  
 ACCESSION NUMBER: 19971465087 CAPLUS  
 DOCUMENT NUMBER: 127:81462  
 TITLE: Preparation of triazolopyrimidine derivatives as ACAT inhibitors  
 INVENTOR(S): Sato, Masakazu; Mannaka, Akira; Takahashi, Keiko; Tomizawa, Kazuyuki  
 PATENT ASSIGNEE(S): Taisho Pharmaceutical Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.  
 CODEN: JOKXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09169763	A	19970630	JP 1995-333247	19951221
JP 3716472	B2	20051116		
PRIORITY APPLN. INFO.:			JP 1995-333247	19951221
OTHER SOURCE(S):	MARPAT	127:81462		

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AB The title compds. (I; X = ASR<sub>1</sub>; A = C<sub>1</sub>-4 alkylene; R<sub>1</sub> = C<sub>1</sub>-20 alkyl; R<sub>2</sub> = H, C<sub>1</sub>-4 alkyl; R<sub>3</sub> = Me, morpholino) are prepared I, possessing Acyl-CoA Cholesterolacyltransferase (ACAT) inhibitory activity, are useful as lipid lowering agents and arteriosclerosis remedies. Thus, Me(CH<sub>2</sub>)<sub>13</sub>SH was treated with NaH and then reacted with I (X = CMe<sub>2</sub>Br, R<sub>2</sub> = Me, R<sub>3</sub> = morpholino) (preparation given) to give the title compound I (X =

CMe<sub>2</sub>S(CH<sub>2</sub>)<sub>13</sub>Me).

R<sub>2</sub> = Me, R<sub>3</sub> = morpholino), which showed IC<sub>50</sub> of 6.05 X 10<sup>-6</sup> M against ACAT when tested with rabbits.

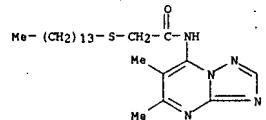
IT 191655-89-7 191655-90-0

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses); (preparation of triazolopyrimidine derivs. as ACAT inhibitors)

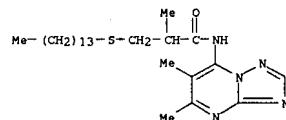
RN 191655-89-7 CAPLUS

CN Acetamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-(tetradecylthio)- (9CI). (CA INDEX NAME)

L6 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)



RN 191655-90-0 CAPLUS  
 CN Propanamide, N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl-3-(tetradecylthio)- (9CI) (CA INDEX NAME)



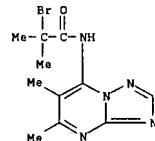
IT 191655-98-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of triazolopyrimidine derivs. as ACAT inhibitors)

RN 191655-98-8 CAPLUS

CN Propanamide, 2-bromo-N-(5,6-dimethyl[1,2,4]triazolo[1,5-a]pyrimidin-7-yl)-2-methyl- (9CI) (CA INDEX NAME)



L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1966127540 CAPLUS

DOCUMENT NUMBER: 64:27540

ORIGINAL REFERENCE NO.: 6450869-h, 5087a-h, 5088a-d

TITLE: Syntheses of pyrazole derivatives. XI. Acetylation products of 7-aminopyrazolo[1,5-a]pyrimidines. Supplement

AUTHOR(S): Takamizawa, Akira; Hamashima, Yoshiro

CORPORATE SOURCE: Shionogi Co., Ltd., Osaka

SOURCE: Chemical & Pharmaceutical Bulletin (1965), 13(10), 1207-20

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

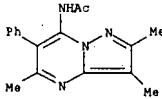
LANGUAGE: English

AB cf. CA 63, 5644b. The steric effect of substituents at C-6 of pyrazolopyrimidine ring on the NH2 group at C-7 was investigated. A mixture of 2 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine, 10 ml. Ac2O, and 20 ml. pyridine was heated at 105° for 5 hrs. to give 1.5 g. 7-acetamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 83-4°. The same reaction could be carried out with AcCl in pyridine. Similarly 500 mg. 2-methyl-5-phenyl-7-aminopyrazolo[1,5-a]pyrimidine gave 450 mg. 2-methyl-5-phenyl-7-acetamido-pyrazolo[1,5-a]pyrimidine, m. 196-8°; and 5-phenyl-7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave 84.8% yield of 5-phenyl-7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 165-6°. On the other hand acetylation of 500 mg. 2-phenyl-7-amino-5-dimethylpyrazolo[1,5-a]pyrimidine with 5 ml. Ac2O and 15 ml. pyridine at 100° 3 hrs. gave 84.7% 2-phenyl-7-diacylamino-5-dimethylpyrazolo[1,5-a]pyrimidine, m. 168-9°. Mild acetylation of 500 mg. 6-phenyl-7-amino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine at 100° for 12 hrs. gave 490 mg. 6-phenyl-7-acetamido-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 228-9°, which on reacetylation at 115° for 6 hrs. gave 89.6% 6-phenyl-7-diacylamino-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 105°. These results indicated that 7-amino group gave a diacetate when an alkyl or aryl group was present at C-6. Compds. with electroneg. COOEt and CN groups at C-6 were examined. Thus, acetylation of 1 g. ethyl 2-methyl-7-aminopyrazolo[1,5-a]pyrimidine-6-carboxylate (I) on acetylation with 10 ml. Ac2O and 20 ml. pyridine in a sealed tube at 110° for 15 hrs. gave 338 mg. ethyl 2-methyl-7-acetylaminopyrazolo[1,5-a]pyrimidine-6-carboxylate (II), m. 169-70°, and 102 mg. ethyl 2-methyl-7-diacylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 100-3°. The diacetate on Al2O3 in CHCl3 gave II, whereas the reacetylation of II gave the diacetate. Similarly 1.5 g. ethyl 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate (III) gave 1.55 g. ethyl 7-diacylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 83-5°, which on chromatography over Al2O3 in EtOAc gave ethyl 7-diacylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine (IV), m. 143-5°. Methylation of 500 mg. II with 500 mg. MeI in 10 ml. acetone in a sealed tube at 110° for 5 hrs. gave ethyl 7-acetylaminoo-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (V), m. 143°. Similarly, 200 mg. IV gave 23 mg. ethyl 7-acetylaminoo-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VI), m. 176°. V and VI were also synthesized in another way. Methylation of 1.1 g. I with 0.71 g. MeI in 30 ml. acetone in a sealed tube at 110° for 6 hrs. gave the methiodide, m. 152° which was dissolved in H2O and neutralized with K2CO3 to give ethyl 7-imino-2,4-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 208°, which on acetylation at room temperature gave V identical with the above samples. Similarly, 2 g. III gave 1.42 g. hydroiodide, m. 205°, which on neutralization gave ethyl

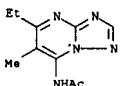
L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

7-imino-2,3,4-trimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate (VII), m. 228°. Its acetylation gave VI. Hydrolysis of VI and VII with 20% HCl under reflux for 24 hrs. gave the known 2,3,4-trimethylpyrazolo[1,5-a]pyrimidine-7(H)-one. Just as methylation, ethylation of 2.2 g. I gave 564 mg. ethyl 2-methyl-4-ethyl-7-imino-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 155-6°; and 2 g. III gave ethyl 4-ethyl-7-imino-2,3-dimethyl-4,7-dihydropyrazolo[1,5-a]pyrimidine-6-carboxylate, m. 181-2°. On the other hand acetylation of 500 mg. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile with 10 ml. pyridine and 5 ml. Ac2O at room temp. for 30 hrs. gave only the monocetonate, 7-acetamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine-6-carbonitrile, m. 204-5°, which was also obtained by the acetylation at 110° for 8 hrs. An explanation was suggested to explain these results. Benzoylation was next tried. Treatment of 1 g. 7-amino-2,5-dimethylpyrazolo[1,5-a]pyrimidine with 10 ml. pyridine and 1.86 g. BzCl at 110° for 1 hr. gave 1.2 g. 7-benzamido-2,5-dimethylpyrazolo[1,5-a]pyrimidine, m. 138-9°. Similarly, 250 mg. 7-benzamido-3,6-dimethylpyrazolo[1,5-a]pyrimidine gave 200 mg. 7-benzamido-3,6-dimethylpyrazolo[1,5-a]pyrimidine, m. 187-8°. Similarly, other 7-acylams. were prep'd. Thus, a suspension of 5.7 g. 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine and 5 g. K2CO3 in 40 ml. dimethylformamide was treated with ClCH2COCl and the mixt. heated on a steam bath for 6 hrs. to give 1.94 g. 7-(2-chloroacetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine (VIII), m. 175°. Replacement of ClCH2COCl by (ClCH2CO)2O and carrying out the reaction in CHCl3 gave the same result. On the other hand, the reaction of 7-amino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (IX) with ClCH2COCl in CHCl3 did not proceed, but on refluxing 1 g. IX with 1 g. anhydride in CHCl3 at 105° for 6.5 hrs. gave 1.96 mg. 7-(2-chloroacetamido)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 152-3°. However when 1.76 g. IX was treated with 1.13 g. ClCH2COCl in 20 ml. dimethylformamide on a steam bath for 1 hr., the product (634 mg.) was 7-(dimethylaminomethylideneamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine (X), m. 119°, whose structure was proved by its spectral data. When ClCH2COCl was replaced by AcCl, 1 g. IX gave X and 7-acetamido-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine. Reaction of 1.68 g. VIII with 1.27 g. Me2NH in CHCl3 in a sealed tube at 105° for 6.5 hrs. gave 1.28 g. 7-(2-dimethylaminocetamido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 168-70° which on redn. with LiAlH4 in tetrahydrofuran gave 7-(2-dimethylaminooethylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 103-4°. As expected the reaction of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine gave ethyl 2,3-dimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 113°, with ClCO2Et; 7-(3-dimethylureido)-2,3-dimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 163° with ClCONMe2; 7-(piperidinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 126°. With piperidinocarbonyl chloride, and 7-(morpholinocarbonylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 208°. IX was less reactive and on treatment with ClCO2Et gave ethyl 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine-7-carbamate, m. 133-5°. 7-Alkylamino compds. were synthesized. Hydrolysis of 7-amino-2,3-dimethylpyrazolo[1,5-a]pyrimidine-7(H)-one, which (200 mg.) on refluxing with 10 ml. POC13 for 3 hrs. gave 193 mg. 7-chloro-2,3-dimethylpyrazolo[1,5-a]pyrimidine-7(H)-one, which with POC13 gave 86% 7-chloro-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 122°. Similarly were prep'd. 7-chloro-2,3,5-trimethylpyrazolo[1,5-a]pyrimidine (XIII), m. 79°. A soln. of 615 mg. XI and 600 mg. NaOAc in 30 ml. MeOH was hydrogenated at room temp. in the presence of 500 mg. 5% Pd-C to absorb 76 ml. H within 5 min. to give 480 mg. 2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 54°, which on further

- L6 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)  
hydrogenation under the same conditions gave 76.2% 2,3-dimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 141-2°. Similarly 500 mg. XII gave 350 mg. 2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 110° and 72% yield of 2,3,6-trimethyl-4,5,6,7-tetrahydropyrazolo[1,5-a]pyrimidine, m. 169-70°, and 213 mg. XIII gave 156 mg. 2,3,5-trimethylpyrazolo[1,5-a]pyrimidine, m. 81°, hydrochloride, m. 179°. A mixt. of 300 mg. XI and excess of MeNH<sub>2</sub> in CHCl<sub>3</sub> was heated in a sealed tube at 150° for 8 hrs. to give 7-methylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 145-6° and was also obtained by hydrogenation of 7-formamido-2,3-dimethylpyrazolo[1,5-a]pyrimidine. Similarly were prepd. 7-methylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 157°; 7-methylamino-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 174°; 7-dimethylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 240°; 7-dimethylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 69°, hydrochloride, m. 206°; 7-dimethylamino-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 250°; 2,3,5-trimethyl-7-piperidinopyrazolo[1,5-a]pyrimidine, m. 132°, hydrochloride, m. 205°; 7-(dimethylcarbamoylmethylamino)-2,3-dimethylpyrazolo[1,5-a]pyrimidine, m. 185-6°, hydrochloride, m. 248°; and 7-(dimethylcarbamoylmethylamino)-2,3,6-trimethylpyrazolo[1,5-a]pyrimidine, m. 177°. The uv, ir, and N.M.R. spectra of all the compds. were described.
- IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-  
RL: PREP (Preparation)  
(R) (preparation of)
- RN 4385-22-2 CAPLUS  
CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-  
(8CI) (CA INDEX NAME)



- L6 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 196413162 CAPLUS  
DOCUMENT NUMBER: 6013162  
ORIGINAL REFERENCE NO.: 6015234-g  
TITLE: Condensed heterocycles. IV. Condensation of 3-amino-1,2,4-triazoles with diaceto- and dipropionitriles  
AUTHOR(S): Levin, Ya. A.; Kukhtin, V. A.  
CORPORATE SOURCE: Cine-Photo Res. Inst., Kazan  
SOURCE: Zhurnal Obshchei Khimii (1963), 33(8), 2678-82  
CODEN: ZOKHA4; ISSN: 0044-460X  
DOCUMENT TYPE: Journal  
LANGUAGE: Unavailable  
GI For diagram(s), see printed CA issue.  
AB Heating 3-amino-5-substituted 1,2,4-triazoles with substituted  $\beta$ -aminocrotononitriles 30-40 min at 155-200° gave (Ia) (R, R', R'') & yield, and m.p. shown, resp.: H, Me, H (I), 84, 246-7° (picrate decomposed 212-14°); Pr, Me, H, 61, 180-1°; C6H<sub>5</sub>, Me, H, 56, 128-30°; H, Et, Me (II), 72, 262-3°; Pr, Et, Me, 51, 225-6°. I refluxed with Ac<sub>2</sub>O in CSHSN gave the Ac derivative, m. 230°; similarly was prepared Ac derivative of II, m. 140°, purified on Al2O<sub>3</sub> in C6H<sub>6</sub>. I and tosyl chloride gave 75% ptoluenesulfonamido analog, decomposed 283-5° (A 304 mp). Treated with Br vapors at 60° in H<sub>2</sub>O, I gave 88% 4-imino-5-bromo-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 245° (A 261 and 298 mp). I and aqueous I-KI in the presence of K<sub>2</sub>CO<sub>3</sub> at 70-80° gave 4-amino-6-methyl-5-iodo-1,2,4-triazolo[2,3-a]pyrimidine, decomposed 233-5° (A 260 and 300 mp). 4-Chloro-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 412°, formed in 82% yield from the 4-oxo analog by refluxing in POC13 3 hrs. Treated with NH<sub>3</sub> in EtOH at 0°, then heated 3 hrs. in an ampul at 100°, this gave 83% 4-amino-5-hexyl-6-methyl-1,2,4-triazolo[2,3-a]pyrimidine, m. 230-1°, which could not be prepared by the above condensation of aminotriazole with dipropionitrile even at 230°. I and concentrated HCl in 5 hrs. at 140° in a sealed tube gave 3-amino-1,2,4-triazole, isolated as the picrate, decomposed 228-30°. Ultraviolet spectra of Ia are shown.
- IT 90973-30-1P, 5-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl-  
RL: PREP (Preparation)  
(R) (preparation of)
- RN 90973-30-1 CAPLUS  
CN 5-Triazolo[1,5-a]pyrimidine, 7-acetamido-5-ethyl-6-methyl- (7CI) (CA INDEX NAME)

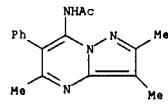


- L6 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN  
ACCESSION NUMBER: 196611534 CAPLUS  
DOCUMENT NUMBER: 6411534  
ORIGINAL REFERENCE NO.: 64:2102f-g  
TITLE: 7-Aminopyrazolo[1,5-a]pyrimidine derivatives  
INVENTOR(S): Takamizawa, Akira; Hayashi, Sadao; Hamashima, Yoshiro  
PATENT ASSIGNEE(S): Shionogi & Co., Ltd.  
SOURCE: 3 pp.  
DOCUMENT TYPE: Patent  
LANGUAGE:Unavailable  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 40018757	B4	19650823	JP	19630907

GI For diagram(s), see printed CA Issue.  
AB Manufacture of I, useful as analgesics and antiinflammatory agents, was described. Thus, a solution of 500 mg. 2,3-dimethyl-7-aminopyrazolo[1,5-a]pyrimidine in 10 ml. CSHSN is heated on a steam bath 3 hrs. with 5 ml. Ac<sub>2</sub>O, the whole concentrated in vacuo, and the residue dissolved in H<sub>2</sub>O, made alkaline, and extracted with AcOEt to give 480 mg. I (R<sub>1</sub> = R<sub>2</sub> = Me, R<sub>3</sub> = R<sub>4</sub> = R<sub>5</sub> = Ac). Similarly prepared are the following I (R<sub>1</sub>, R<sub>2</sub>, R<sub>3</sub>, R<sub>4</sub>, R<sub>5</sub>, and m.p. given): H, Me, H, Me, Ac, Ac, 119-21°; H, Me, H, Me, H, Ac, 153°; Me, Me, H, Me, Ac, Ac, 137-8°; Me, Me, H, Me, H, Ac, 158-9°; Me, H, Ph, H, H, Ac, 196-8°; Me, Me, H, Ac, 165-6°; Me, Me, Me, Ph, H, Ac, 229-30°; Me, Me, Me, Ph, Ac, Ac, 105°. IT 4385-22-2P, Pyrazolo[1,5-a]pyrimidine, 7-acetamido-2,3,5-trimethyl-6-phenyl-  
RL: PREP (Preparation)  
(R) (preparation of)

RN 4385-22-2 CAPLUS  
CN Acetamide, N-(2,3,5-trimethyl-6-phenylpyrazolo[1,5-a]pyrimidin-7-yl)-  
(8CI) (CA INDEX NAME)



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(FILE 'HOME' ENTERED AT 17:34:14 ON 27 JUL 2007)

FILE 'REGISTRY' ENTERED AT 17:35:30 ON 27 JUL 2007

L1           STRUCTURE UPLOADED  
L2           35 S L1  
L3           STRUCTURE UPLOADED  
L4           2 S L3  
L5           8 S L3 FULL SSS

FILE 'CAPLUS' ENTERED AT 17:38:48 ON 27 JUL 2007

L6           6 S L5

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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	32.56	207.33
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-4.68	-4.68

STN INTERNATIONAL LOGOFF AT 17:39:50 ON 27 JUL 2007